

Nuclear Power Plants



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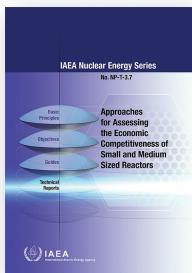
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Ageing Management of Concrete Structures in Nuclear Power Plants

IAEA Nuclear Energy Series No. NP-T-3.5

This publication is one in a series of reports on the assessment and management of ageing of major nuclear power plant components. Current practices for assessment of safety margins (fitness for service) and inspection, monitoring and mitigation of ageing related degradation of selected concrete structures related to NPPs are documented. Implications for and differences in new reactor designs are discussed. This information is intended to help all involved directly and indirectly in ensuring the safe operation of NPPs, and also to provide a common technical basis for dialogue between plant operators and regulators when dealing with age related licensing issues.

(Forthcoming 2014) • ISBN 978-92-0-102914-0 •
STI/PUB/1654 • €55.00



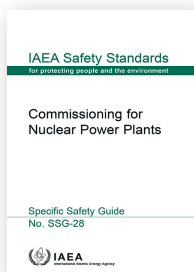
Approaches for Assessing the Economic Competitiveness of Small and Medium Sized Reactors

IAEA Nuclear Energy Series No. NP-T-3.7

This publication assists existing and potential stakeholders in the definition of competitive approaches regarding design and deployment of small and medium sized reactors (SMRs). It provides a framework for assessment of the investment attractiveness of nuclear power plant projects that adopt small reactors to be deployed in multimodules and incorporate modularization construction technology. Main chapters detail past experience and future plans in several IAEA Member States and present a suite of models to assist designers and guide potential users on the economic performance and investment attractiveness of SMRs. A framework for the consolidated application of such models is also suggested. The annexes, contributed by Member States, provide in depth descriptions of

different assessment models and give examples of their application.

(255 pp., 89 figs; 2013) • ISBN 978-92-0-144210-9 •
STI/PUB/1619 • €42.00



Commissioning for Nuclear Power Plants

Specific Safety Guide

IAEA Safety Standards Series No. SSG-28

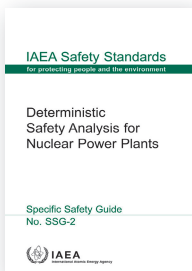
This Safety Guide provides recommendations on the basis of international best practices, as currently followed in IAEA Member States, on how to meet the requirements for the commissioning of nuclear power plants. These requirements enable the commissioning of a nuclear power plant to proceed safely and to a high quality. The recommendations will also enable the necessary assurances to be provided that the plant has been constructed in accordance with the design intent and can be operated safely.

(84 pp., 2 figs; 2014) • ISBN 978-92-0-140110-6 •
STI/PUB/1595 • €40.00

Country Nuclear Power Profiles – 2014 Edition

The Country Nuclear Power Profiles compile background information on the status and development of nuclear power programmes in Member States. The CNPP summarizes organizational and industrial aspects of nuclear power programmes and provides information about the relevant legislative, regulatory and international framework in each State. Its descriptive and statistical overview of the overall economic, energy, and electricity situation in each State and its nuclear power framework is intended to serve as an integrated source of key background information about nuclear power programmes throughout the world. This 2014 edition, issued on CD-ROM and web pages, contains updated country information for 51 States.

(2014) • ISBN 978-92-0-158514-1 • IAEA-CNPP/2014/CD • €95.00



Deterministic Safety Analysis for Nuclear Power Plants

Specific Safety Guide

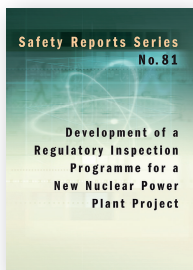
IAEA Safety Standards Series No. SSG-2

The objective of this Safety Guide is to provide harmonized guidance to designers, operators, regulators and providers of technical support on deterministic safety analysis for nuclear power plants. It provides information on the utilization of the results of such analysis for safety and reliability improvements. The Safety Guide addresses conservative, best estimate and uncertainty evaluation approaches to deterministic safety analysis and is applicable to current and future designs.

English Edition (62 pp., 2 figs; 2010) • ISBN 978-92-0-113309-0 • STI/PUB/1428 • €23.00

Russian Edition (72 pp., 2 figs; 2012) • ISBN 978-92-0-401814-1 • STI/PUB/1428 • €23.00

Spanish Edition (66 pp., 2 figs; 2012) • ISBN 978-92-0-333010-7 • STI/PUB/1428 • €23.00



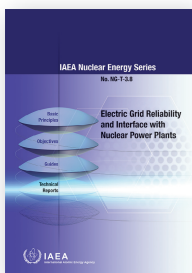
Development of a Regulatory Inspection Programme for a New Nuclear Power Plant Project

Safety Reports Series No. 81

This Safety Report provides general principles, guidance and technical rationale for regulatory inspections related to new nuclear power plant projects, and is based on the consideration of IAEA safety standards and experiences of Member States. The publication covers regulatory inspection during siting, design, construction and commissioning stages as well as the transition to operation. It takes into account approaches and practices of Member States recently involved in new nuclear facility

projects, and it includes examples of Member States' regulatory inspection programmes and experiences.

(112 pp., 3 figs; 2014) • ISBN 978-92-0-113513-1 •
STI/PUB/1636 • €35.00

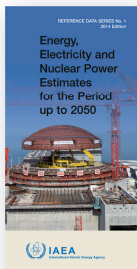


Electric Grid Reliability and Interface with Nuclear Power Plants

IAEA Nuclear Energy Series No. NG-T-3.8

This publication describes the characteristics of the electrical grid system that are required for the connection and successful operation of a nuclear power plant, as well as the characteristics of a nuclear power plant that are significant for the design and operation of the electrical grid system. It addresses the issues to be considered when a nuclear power plant is being planned and describes the information exchange necessary between the developer of a nuclear power plant and the organization responsible for the electrical grid. The particular issue of a large nuclear unit connected to a small system is also discussed. A new topic introduced in this publication is the need for cyber security to protect the grid system near the nuclear power plant. Several case studies of Member State experiences in developing new nuclear units and experiences with grid events during operation are included.

(78 pp., 13 figs; 2012) • ISBN 978-92-0-126110-6 •
STI/PUB/1542 • €32.00



Energy, Electricity and Nuclear Power Estimates for the Period up to 2050

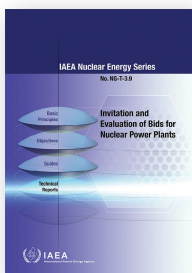
2014 Edition

Reference Data Series No. 1

The 34th edition of the annual Reference Data Series No.1 contains estimates of energy, electricity and nuclear power trends up to the year 2050, using a variety of

sources, such as the IAEA's Power Reactor Information System and data prepared by the United Nations.

(53 pp., 10 figs; 2014) • ISBN 978-92-0-108014-1 •
IAEA-RDS-1/34 • €18.00

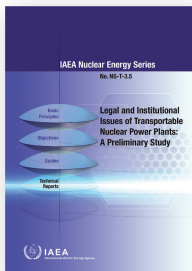


Invitation and Evaluation of Bids for Nuclear Power Plants

IAEA Nuclear Energy Series No. NG-T-3.9

This publication emphasizes the integrity and interdependence of various activities related to invitation of bids, their technical and economic evaluation, and contracting. It updates information included in existing IAEA publications in order to better reflect the developments in the nuclear and energy industry, and constitutes a compact and user friendly guidebook integrating the existing IAEA publications on the subject. It provides the information necessary to organize, guide and realize the activities related to the invitation of bids, their technical and economic evaluation, and contracting as an integrated process. Furthermore, this publication indicates how and to what degree the activities preceding the preparation of the bid invitation specification, the evaluation of bids and contracting can influence the process.

(78 pp., 8 figs; 2012) • ISBN 978-92-0-116710-1 •
STI/PUB/1536 • €24.00



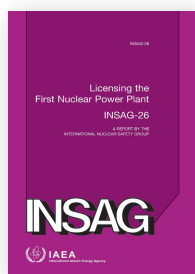
Legal and Institutional Issues of Transportable Nuclear Power Plants: A Preliminary Study

IAEA Nuclear Energy Series No. NG-T-3.5

A transportable nuclear power plant (TNPP) is a factory manufactured, movable nuclear power plant, which when fuelled is capable of producing final energy products such as electricity and heat. Transportable nuclear power plants

are not designed to operate during transportation. This publication highlights the potential benefits of TNPPs, describes the legal and institutional issues for their deployment in countries other than the country of origin, reveals challenges that might be faced in their deployment, and outlines pathways for resolution of the identified issues and challenges in the short and long term. It is addressed to senior legal, regulatory and technical officers in Member States planning to embark on a nuclear power programme or to expand an existing one by considering the introduction of a TNPP.

**(95 pp., 6 figs; 2013) • ISBN 978-92-0-144710-4 •
STI/PUB/1624 • €33.00**

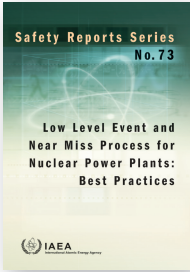


Licensing the First Nuclear Power Plant

INSAG Series No. 26

A robust national nuclear safety infrastructure is essential for the deployment of a country's first nuclear power plant. A major challenge in this process is the development of an effective legal and governmental framework for safety, including an independent regulatory body. This publication supplements existing guidance in the IAEA safety standards on the development of an effective safety infrastructure and provides further assistance to new entrant regulatory bodies on the key challenges they will face throughout the life cycle of the first nuclear power plant. The publication focuses on the phases of a nuclear power deployment programme from the granting of a licence for construction to granting the licence for commissioning and operation.

**(49 pp., 1 fig.; 2012) • ISBN 978-92-0-134210-2 •
STI/PUB/1573 • €25.00**

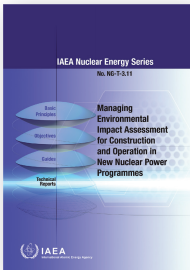


Low Level Event and Near Miss Process for Nuclear Power Plants: Best Practices

Safety Reports Series No. 73

This publication provides nuclear power plant operators and regulatory organizations with a best practice overview of the development, implementation and continuous improvement of low level event and near miss processes. Use of guidance and best practices, as described in this publication, will help the relevant organizations in recognizing emerging adverse trends by analysing lower level events and near misses. Correcting such adverse trends proactively may prevent occurrence of significant events, and thereby, enhance the safety and reliability of nuclear power plants.

(86 pp., 13 figs; 2012) • ISBN 978-92-0-126610-1 •
STI/PUB/1545 • €30.00



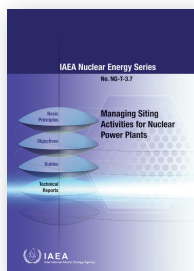
Managing Environmental Impact Assessment for Construction and Operation in New Nuclear Power Programmes

IAEA Nuclear Energy Series No. NG-T-3.11

This publication provides a holistic approach to environmental protection in new nuclear power programmes. It describes the environmental impact assessment (EIA) process, the subsequent utilization of the EIA, and the necessary infrastructure for such processes. The presumption is that a Member State embarking on such a programme already has an environmental regulatory framework in place, which may not be developed for nuclear power but instead for industrial projects; therefore the emphasis is on the environmental aspects that are unique to a nuclear power plant project. The publication is addressed to senior managers, project managers or coordinators and technical specialists of government authorities and agencies,

including the regulatory body, operating organizations and supporting industries and other organizations involved in environmental issues.

(47 pp., 8 figs; 2014) • ISBN 978-92-0-144810-1 •
STI/PUB/1625 • €29.00

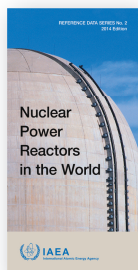


Managing Siting Activities for Nuclear Power Plants

IAEA Nuclear Energy Series No. NG-T-3.7

This publication has been developed to help Member States ensure that appropriate sites for a nuclear power plant are identified, assessed and licensed, in a well planned and efficient manner, taking into account all relevant factors and lessons learned from recent events. It is applicable to countries with existing nuclear facilities as well as those introducing nuclear power in their energy mix. This IAEA Nuclear Energy Series publication provides guidance on the complex organizational, engineering, socioeconomic and environmental issues of siting. It complements the IAEA Safety Guides related to site selection and integrates existing IAEA documentation on the subject into a more compact and user friendly guidebook.

(59 pp., 8 figs; 2012) • ISBN 978-92-0-131610-3 •
STI/PUB/1565 • €32.00



Nuclear Power Reactors in the World 2014 Edition

Reference Data Series No. 2

This is the 34th edition of Reference Data Series No. 2, which presents the most recent reactor data available to the IAEA. It contains summarized information as of the end of 2013 on: power reactors operating, under construction, and shut down; and performance data on reactors operating in the IAEA Member States, as reported to the IAEA. The information is collected through designated national correspondents in the Member States

and the data are used to maintain the IAEA's Power Reactor Information System (PRIS).

(79 pp., 6 figs; 2014) • ISBN 978-92-0-104914-8 •
IAEA-RDS-2/34 • €15.00

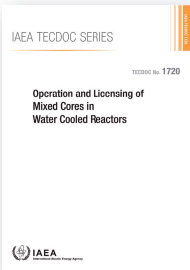
Operating Experience with Nuclear Power Stations in Member States in 2013

2014 Edition (CD-ROM)

Operating Experience

This CD-ROM contains the 45th edition of the IAEA's series of annual reports on operating experience with nuclear power plants in Member States. It is a direct output from the IAEA's Power Reactor Information System (PRIS) and contains information on electricity production and overall performance of individual plants during 2013. In addition to annual information, the report contains a historical summary of performance during the lifetime of individual plants and figures illustrating worldwide performance of the nuclear industry. The CD-ROM contains also an overview of design characteristics and dashboards (not included in the web version) of all operating nuclear power plants worldwide.

CD Edition (2014) • ISBN 978-92-0-157314-8 •
STI/PUB/1671 • €75.00



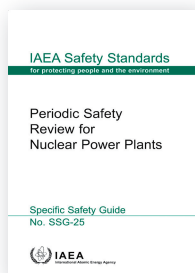
Operation and Licensing of Mixed Cores in Water Cooled Reactors

IAEA TECDOC Series No. 1720

The performance and operation of mixed cores is of interest to many nuclear power plants as new and improved fuel designs have been introduced or a different fuel vendor has been chosen to supply fuel. Such decisions have generally been driven by economic considerations or by the expectation of improved fuel performance. The design and licensing of a fuel load in a reactor core are complex undertakings, even without the additional complication of the usage of different fuel types. The issues that need to be considered

include simple geometric compatibility of different fuel types, their different thermohydraulic characteristics and nuclear behaviour. This publication presents the results of two meetings held on these topics and hosted by the IAEA. The meetings provided a forum to address the above mentioned issues and to review the accumulated experience and state of the art information on mixed core operation, as well as tools and techniques that are used to analyse the core operation and to demonstrate that there are no safety related issues.

(2013) • ISBN 978-92-0-113213-0 • IAEA-TECDOC-1720 • €18.00



Periodic Safety Review for Nuclear Power Plants

Specific Safety Guide

IAEA Safety Standards Series No. SSG-25

This Safety Guide provides recommendations and guidance on conducting periodic safety review (PSR) of an existing nuclear power plant. PSR is a comprehensive safety review of all important aspects of safety, carried out at regular intervals, typically every ten years. In addition, PSR may be used in support of the decision making process for licence renewal or long term operation, or for restart of a nuclear power plant following a prolonged shutdown. The review process described in this Safety Guide is valid for nuclear power plants of any age and may have a wider applicability, for example to research reactors and radioactive waste management facilities, by means of a graded approach. Although PSR may not be an appropriate means for identifying safety issues in the decommissioning phase, the documentation resulting from PSR of an operating nuclear power plant will be an important input when planning decommissioning.

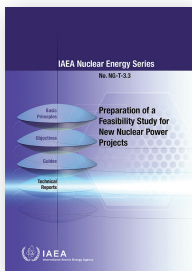
(106 pp., 5 figs; 2013) • ISBN 978-92-0-137410-3 •
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Plant Life Management Model for Long Term Operation of a Nuclear Power Plant

IAEA Nuclear Energy Series No. NP-T-3.18

When nuclear power plants reach the end of their nominal design life, they undergo a special safety review and an ageing assessment of their essential structures, systems and components for the purpose of validating or renewing their licence to operate for terms beyond the service period originally intended. Three different plant life management models have been used to qualify these nuclear power plants to operate beyond their original design life. This publication presents a collection of sample licensing practices for long term operation among IAEA Member States. The various plant life management models used to obtain long term operation authorizations are described and comparisons drawn against the standard periodic safety review model. Lessons learned and warning about possible complications and pitfalls are also described to minimize the licensing risk during operation and future long term operation applications. The main intention of this publication is to support nuclear power plant owners and operators planning an extension of their plant operation beyond its original design life, but it also serves as a useful guide for those interested in procuring from the beginning, the necessary tools to implement ageing management in their future plant with long term operation in mind.

(Forthcoming 2014) • ISBN 978-92-0-103014-6 •
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Preparation of a Feasibility Study for New Nuclear Power Projects

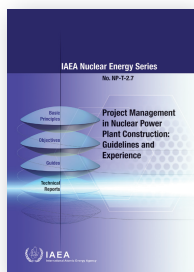
IAEA Nuclear Energy Series
No. NG-T-3.3

A feasibility study represents an important step in the development of a new build nuclear power plant project. It is a complex but necessary step to

determine whether a business opportunity is possible, practical and viable. Technical, economic, financial,

regulatory, social and environmental aspects of a nuclear power plant programme need to be considered to allow authorities to make informed decisions regarding the possible implementation of the project. This publication assists Member States in developing a feasibility study for nuclear power projects and provides guidance to users who are planning to perform such a study, with consideration of both the technical and process areas. These guidelines condense the experience of individuals involved in previous feasibility study efforts and provide industry best practices in order to maximize the usefulness of any results.

**(125 pp., 10 figs; 2014) • ISBN 978-92-0-145610-6 •
STI/PUB/1633 • €39.00**

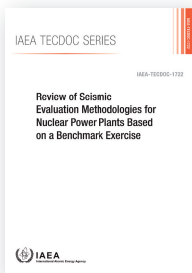


Project Management in Nuclear Power Plant Construction: Guidelines and Experience

**IAEA Nuclear Energy Series
No. NP-T-2.7**

Project management is a leadership function primarily concerned with the organization, coordination and control of large undertakings, with the aim of achieving technical excellence by working to quality standards, optimizing the schedule and the supply chain, and minimizing costs. Competent project management can reduce costs through more efficient work sequences, higher productivity, shorter activity durations and the parallel reduction of accumulated interest during construction of nuclear power plants. Based on past proven practices in Member States, this publication provides guidance on project management from the preparatory phase to plant turnover to commissioning of nuclear power plants. The guidelines and experiences described will enable project managers to obtain better performance in nuclear power plant construction.

**(124 pp., 37 figs; 2012) • ISBN 978-92-0-122210-7 •
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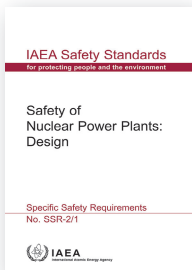


Review of Seismic Evaluation Methodologies for Nuclear Power Plants Based on a Benchmark Exercise

IAEA TECDOC Series No. 1722

This publication presents the results of the Kashiwazaki-Kariwa research initiative for seismic margin assessment (KARISMA) benchmarking exercise to estimate how well the analytical results can predict the actual response and performance of structure, system and components (SSCs) and to identify the areas that may need reinforcement, or highlight those areas where analytical results are not an accurate predictor of SSC performance.

(2014) • ISBN 978-92-0-114913-8 • IAEA-TECDOC-1722 • €18.00



Safety of Nuclear Power Plants: Design

Specific Safety Requirements

IAEA Safety Standards Series No. SSR-2/1

This publication is a revision of IAEA Safety Standards Series No. NS-R-1, Safety of Nuclear Power Plants: Design. It establishes requirements applicable to the design of nuclear power plants and elaborates on the safety objective, safety principles and concepts that provide the basis for deriving the safety requirements that must be met for the design of a nuclear power plant. It will be useful for organizations involved in the design, manufacture, construction, modification, maintenance, operation and decommissioning of nuclear power plants, as well as for regulatory bodies.

Arabic Edition (64 pp., 2 figs; 2012) • ISBN 978-92-0-630510-2 • STI/PUB/1534 • €32.00

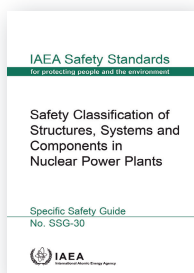
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Safety Classification of Structures, Systems and Components in Nuclear Power Plants

Specific Safety Guide

IAEA Safety Standards Series No. SSG-30

This Safety Guide provides recommendations and guidance on how to meet the requirements established in Specific Safety Requirements No. SSR-2/1 and in General Safety Requirements No. GSR Part 4 for the identification of structures, systems and components (SSCs) important to safety in nuclear power plants and for their classification on the basis of their function and safety significance. This Safety Guide is intended primarily for use by organizations involved in the design of nuclear power plants, as well as by regulatory bodies and their technical support organizations. The Safety Guide can also be applied to other nuclear installations subject to appropriate adjustments relevant to the specific design of the type of the facility being considered.

(24 pp., 2 figs; 2014) • ISBN 978-92-0-115413-2 • STI/PUB/1639 • €22.00



Third International Conference on Nuclear Power Plant Life Management

Proceedings of an International Conference held in Salt Lake City, USA, 14–18 May 2012

Proceedings Series

There is a current trend for the operational life of nuclear power plants to be extended beyond that of their original licence period. This publication is the proceedings of the

third International Conference on Nuclear Power Plant Life Management, which demonstrated the value of an open exchange of information between experts from different countries and organizations. The presentations cover a wide range of subjects including: very specific solutions for reactor pressure vessel integrity; material degradation; ageing management and licensing renewal approaches; risk informed inspection; non-destructive examination methods; and tools to be used in various stages of plant life management programmes. The publication provides utilities, operators and regulators with a comprehensive state of the science and technology overview of the main issues concerning nuclear power plant life management.

**CD Edition (2014) • ISBN 978-92-0-162510-6 •
STI/PUB/1634 • €20.00**

Approaches to Ageing Management for Nuclear Power Plants: International Generic Ageing Lessons Learned (IGALL) Final Report

IAEA TECDOC Series No. 1736

(2014) • ISBN 978-92-0-104414-3 • IAEA-TECDOC-1736 • €18.00



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