SENARAI PEROLEHAN BAHAN PERPUSTAKAAN NUKLEAR MALAYSIA
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3		DEWAN MASYARAKAT	DEWAN BAHASA PUSTAKA		BIL. 9	SEPT	2021	2
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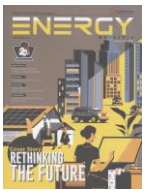
6		SOLUSI	TELAGA BIRU SDN BHD		BIL. 140	SEPT-OKT	2021	2
7		ENERGY MALAYSIA	SURUHANJAYA TENAGA	VOL. 21			2021	10

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TERBITAN IAEA YANG TERKINI (OKT 2021)

The IAEA is pleased to announce the publication of:

Technology Roadmap for Small Modular Reactor Deployment

IAEA Nuclear Energy Series No. NR-T-1.18

Technology roadmaps have proven to be a useful management tool for evaluating, planning and strategizing the development of complex technological projects. This publication is intended to provide Member States with a set of generic roadmaps which can be used in the deployment of small modular reactors. These roadmaps are based on the latest inputs from Member States currently pursuing this technology. The publication places emphasis on the activities of owners/operators who drive the demand and requirements for the reactor designs, the designers who develop the technologies, and the regulators who establish and maintain the regulatory requirements that owners/operators should meet. It also provides a methodology for developing a technology roadmap for reactors with longer development horizons and discusses emerging opportunities and challenges for this relatively new technology.

STI/PUB/1944, 109 pp., 10 figs; 2021; ISBN: 978-92-0-110021-4, English, 48.00 Euro

Electronic version can be found:

Technology Roadmap for Small Modular Reactor Deployment | IAEA

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Developing Roadmaps to Enhance Nuclear Energy Sustainability: Final Report of the INPRO Collaborative Project ROADMAPS

IAEA Nuclear Energy Series No. NG-T-3.22

This publication presents the outputs of the INPRO collaborative project ROADMAPS. It introduces the concept of roadmapping for enhanced nuclear energy sustainability, which has been developed over the course of several collaborative projects within INPRO. The principal products of the ROADMAPS collaborative project are the roadmap template and the ROADMAPS-ET tool. ROADMAPS-ET is an analytical decision support tool for structuring, unifying and visualizing data on issues related to long term nuclear energy planning and nuclear energy system sustainability enhancement. It is supplemented by an approach for the bottom-up integration of national roadmaps. The publication includes case studies which are trial applications of the roadmap template. The studies address national or cooperative long term nuclear energy deployment scenarios with evolutionary as well as with innovative nuclear energy technologies. Examples of possible roadmap aggregation for analysis at regional and global levels are also provided.

STI/PUB/1941; 70 pp., 34 figs; 2021; ISBN: 978-92-0-108221-3, English, 58.00 Euro

Electronic version can be found:

Developing Roadmaps to Enhance Nuclear Energy Sustainability: Final Report of the INPRO Collaborative Project ROADMAPS | IAEA

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Alternative Radionuclide Production with a Cyclotron

IAEA Radioisotopes and Radiopharmaceuticals Reports No. 4

Cyclotrons are currently used for the preparation of a wide variety of radionuclides that have applications in single photon emission computed tomography (SPECT) and positron emission tomography (PET). Consequently, there is high demand from IAEA Member States for support in the area of radiopharmaceutical production using cyclotron produced radioisotopes. This publication describes the potential radionuclide production routes using cyclotrons in different energy ranges and provides methods for the development of targets and provides details of the chemistry for the separation of radionuclides from target materials. The readership of this publication includes scientists, operators interested in putting this technology into practice, technologists already working with cyclotrons who wish to enhance the utility of existing machines, and managers in the process of setting up radionuclide facilities in their countries. Students working towards higher level degrees in related fields may also benefit from this publication.

STI/PUB/1937; 69 pp., 9 figs; 2021; ISBN: 978-92-0-103021-4, English, 40.00 Euro

Electronic version can be found:

Alternative Radionuclide Production with a Cyclotron | IAEA

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Data Analysis and Collection for Costing of Research Reactor Decommissioning: Final Report of the DACCORD Collaborative Project

IAEA Nuclear Energy Series No. NW-T-2.12

This publication reports on the DACCORD project, which supports Member States in preparing preliminary cost estimates for the decommissioning of research reactors. The report is of particular benefit

to programmes with limited decommissioning experience. Costing projects for the decommissioning of research reactors can be broad in scope with many possible inputs and influences that require due consideration in developing the estimate. The publication provides information on unit factors for research reactor decommissioning and a basis for estimating uncertainties and contingencies and for assessing the impact of decommissioning planning and characterization activities. It also addresses the use of the CERREX-D2 (Cost Estimate for Research Reactors in Excel) software code, developed by the IAEA to enable non-specialist users to develop preliminary cost estimates for decommissioning.

STI/PUB/1942, 127 pp.; 71 figs.; 2021; ISBN: 978-92-0-108621-1, English, 52.00 Euro

Electronic version can be found:

Data Analysis and Collection for Costing of Research Reactor Decommissioning: Final Report of the DACCORD Collaborative Project | IAEA

Computer Security Techniques for Nuclear Facilities

IAEA Nuclear Security Series No. 17-T (Rev. 1)

This revision provides guidance on how to establish or improve, develop, implement, maintain, and sustain computer security within nuclear facilities. This publication addresses the use of risk informed approaches to establish and enhance computer security policies, programmes; it describes the integration of computer security into the management system of a facility; establishes a systematic approach to identifying facility functions and appropriate computer security measures that protect sensitive digital assets and the facility from the consequence of cyber-attacks consistent with the threat assessment or design basis threat.

STI/PUB/1921, 140 pp.; 12 figs.; 2021; ISBN: 978-92-0-123520-6, English, 58.00 Euro

Electronic version can be found:

Computer Security Techniques for Nuclear Facilities | IAEA

Model Academic Curriculum in Nuclear Security

IAEA Nuclear Security Series No. 12-T (Rev. 1)

This publication provides a model academic curriculum covering the entire spectrum of nuclear security topics for a master's degree programme or for an academic certificate programme in nuclear security. The first edition, entitled Educational Programmes in Nuclear Security, was published in 2010. Since then, the body of knowledge in the field of nuclear security has grown substantially and the IAEA Nuclear Security Series has expanded to cover more topics. The current publication takes into account the latest IAEA guidance, as well as feedback from the International Nuclear Security Education Network (INSEN) community and other international experts. The publication can be used by university curriculum developers as well as faculty and instructors from institutions that are implementing or considering educational programmes in nuclear security.

STI/PUB/1930, 141 pp.; 2 figs.; 2021; ISBN: 978-92-0-132620-1, English, 58.00 Euro

Electronic version can be found:

Model Academic Curriculum in Nuclear Security | IAEA

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Protection against Internal Hazards in the Design of Nuclear Power Plants

IAEA Safety Standards Series No. SSG-64

Internal hazards have to be considered in the design of items important to safety in a nuclear power plant. The objective is to provide appropriate features to prevent internal hazards and mitigate their effects to ensure that safety is not compromised. This Safety Guide provides recommendations to regulatory bodies, nuclear power plant designers and licensees on hazard assessment (including for combinations of hazards) and design concepts for protection against internal hazards in nuclear power plants, in order to meet the requirements established in IAEA Safety Standards Series No. SSR 2/1 (Rev. 1), Safety of Nuclear Power Plants: Design. The following internal hazards are reviewed in this Safety Guide: fires, explosions, missiles, pipe breaks, flooding, collapse of structures and falling objects with a focus on heavy load drop, electromagnetic interference and release of hazardous substances originating from within the site boundary.

STI/PUB/1947, 83 pp.; 2 figs.; 2021; ISBN: 978-92-0-116021-8, English, 44.00 Euro

Electronic version can be found:

Protection against Internal Hazards in the Design of Nuclear Power Plants | IAEA

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Managing the Interface between Safety and Security for Normal Commercial Shipments of Radioactive Material

Technical Reports Series 1001

Regulations governing the safe transport of radioactive material have been developed and maintained at the international and national levels for more than six decades. More recently, similar efforts have been initiated for security during the transport of radioactive material; however, safety and security provisions have typically been developed independently. The aim of this publication is to provide technical guidelines and practical information to assist Member States, competent authorities and operators in ensuring an integrated and coordination approach. Based on international good practices, its use will facilitate the management of the interface between nuclear safety and security during normal commercial shipments of radioactive material that pose a low radiological consequence if attacked by an adversary.

STI/DOC/010/1001, 80 pp., 4 figs.; 2021; ISBN: 978-92-0-106121-8, English, 46.00 Euro

The electronic version for the above publication can be found below:

Managing the Interface between Safety and Security for Normal Commercial Shipments of Radioactive Material | IAEA

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Implementation of a Remote and Automated Quality Control Programme for Radiography and Mammography Equipment

IAEA Human Health Series No. 39

This publication provides a framework for the quality control (QC) of radiographic and mammographic imaging systems using remote and automated tools. The methodology provided in this publication is designed to be easy to implement, in order to support initiation of remote/automated QC programmes. It is based on simple, inexpensive test objects and promotes collection of data in a uniform, harmonized manner allowing for intercomparison and benchmarking. These tests are not intended to replace the comprehensive performance evaluation of the radiographic systems by a CQMP. They can, however, detect deficiencies in system performance before they become clinically significant. Furthermore, frequent QC testing promotes a culture of quality in imaging.

STI/PUB/1936, 123 pp., 47 figs.; 2021; ISBN: 978-92-0-102621-7, English, 54.00 Euro

The electronic version for the above publication can be found below:

Implementation of a Remote and Automated Quality Control Programme for Radiography and Mammography Equipment | IAEA

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