


SENARAI PEROLEHAN BAHAN PERPUSTAKAAN NUKLEAR MALAYSIA
JANUARI 2023



KOLEKSI BUKU/MONOGRAF

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BIL	KULIT	JUDUL/BAHAN	PENERBIT	KELUARAN/ISU				BIL/ NASKHAH
				VOL	ISU	BULAN	TAHUN	
1		FRIM in Focus	FRIM			Dec.	2022	1
2		Invest Kedah.	Invest Kedah Malaysia		2 nd ed.		2022	1

TERBITAN IAEA YANG TERKINI (JANUARI 2023)

The IAEA is pleased to announce the publication of:

Clinical Applications of SPECT–CT

IAEA Human Health Series No. 41

Single photon emission computed tomography (SPECT) has been used in routine diagnostic applications and in research since the 1980s. In the following decades, as the clinical application of hybrid imaging has grown, SPECT–computed tomography (SPECT–CT) has demonstrated improved patient management and become fully integrated in the routine diagnostic approach to a variety of clinical indications, including both oncologic and non-oncologic diseases. This IAEA Human Health Series publication presents a review of the published data from recent applications of SPECT–CT across nine different clinical scenarios including neurology, orthopaedics, endocrinology and cardiology, to demonstrate the variety of hybrid imaging in nuclear medicine and support decision making when allocating resources in the health care system. It provides a relevant source of information for nuclear medicine physicians, radiologists and clinical practitioners.

[STI/PUB/1971, 97 pp., 2 figs; 2023; ISBN: 978-92-0-111522-5, English, 50.00 Euro](#)

Electronic version can be found:

[Clinical Applications of SPECT–CT | IAEA](#)

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PET-CT for the Management of Cancer Patients: a Review of the Existing Evidence

IAEA Human Health Series No. 45

While the use of positron emission tomography–computed tomography (PET–CT) is a standard of care in oncological practice in many developed countries, it is still limited in many low to middle income nations. To make reliable information more widely available, the IAEA convened an expert consultant group to review, based on the most recent developments of PET radiopharmaceuticals, Human Health Series No. 9, Appropriate Use of FDG-PET for the Management of Cancer Patients. This, the resulting publication, provides up to date recommendations on the optimal use of PET–CT imaging procedures in oncology. It is written for policy makers and decision makers who allocate resources dedicated to the health care system, a critical issue in the development of nuclear medicine in low and middle income countries. It will also benefit medical imaging practitioners as well as referring physicians.

[STI/PUB/1993; 79 pp.; 2023; ISBN: 978-92-0-118622-5, English, 50.00 Euro](#)

Electronic version can be found:

[PET-CT for the Management of Cancer Patients: a Review of the Existing Evidence | IAEA](#)

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Milestones in the Development of National Infrastructure for the Uranium Production Cycle

IAEA Nuclear Energy Series No. NF-G-1.1

Many IAEA Member States have expressed interest in introducing or reintroducing uranium mining and related activities for the purposes of nuclear fuel production, and so contribute to meeting energy needs. This publication is intended to be used as guidance on how to evaluate the progress toward establishing or re-establishing a national uranium production programme and to aid in the planning steps necessary to develop the national infrastructure requirements for uranium production in a Member State. The publication includes consideration of four phases of successive development in the uranium production cycle to achieve four corresponding milestones. The four phases are: (i) exploration, (ii) construction/ commissioning of a uranium mine and processing facility, (iii) safe operation of a uranium mine and processing facility, and (iv) decommissioning and remediation. Within each phase sixteen aspects or issues are identified that ought to be addressed to achieve each milestone in the development of the

uranium production cycle. The publication will be of interest to government decision makers and decision influencers, such as advisors in relevant government departments, regulatory bodies involved in regulation of uranium mines and processing facilities, and the uranium mining/processing industry and researchers.

[STI/PUB/2019; 163 pp., 9 figs; 2023; ISBN: 978-92-0-128822-6, English, 44.00 Euro](#)

Electronic version can be found:

[Milestones in the Development of National Infrastructure for the Uranium Production Cycle | IAEA](#)

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Management of Depleted Uranium Used as Shielding in Disused Radiation Devices

IAEA Nuclear Energy Series No. NW-T-1.30

In the context of the safe management of disused sealed radioactive sources, an important and emerging issue of immediate concern is the management of depleted uranium (DU) contained in radiation shielding materials, as potential radioactive waste. This publication presents relevant information on technical issues and factors, as well as specific Member State experiences leading to the identification of potential options for the management of DU shields. Various options for safe, secure and cost-effective solutions have been explored, ranging from returning to manufacturer, including reuse, recycling, storage and disposal in licensed facilities.

[STI/PUB/2020, 145 pp., 218 figs; 2023; ISBN: 978-92-0-129122-6, English, 48.00 Euro](#)

Electronic version can be found:

[Management of Depleted Uranium Used as Shielding in Disused Radiation Devices | IAEA](#)

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Nuclear–Renewable Hybrid Energy Systems

IAEA Nuclear Energy Series No. NR-T-1.24

Nuclear energy and renewables are the two principal options for low carbon energy generation. However, synergies among these resources have yet to be fully exploited, and the advantages of directly integrating these generation options are being explored. Nuclear-renewable hybrid energy systems consider opportunities to couple these energy generation sources to leverage the benefits of each technology to provide reliable, sustainable electricity to the grid and to provide low carbon energy to other energy use sectors. This publication describes the potential use of nuclear and renewable generation in coordinated, and in some cases tightly coupled, configurations to support various applications beyond electricity production, including desalination, hydrogen production and district heating. Where available, case studies are presented to describe relevant market conditions and trends, and considerations for implementation are outlined, including gaps that require additional technology and regulatory developments.

[STI/PUB/2041; 74 pp., 20 figs; 2023; ISBN: 978-92-0-148922-7, English, 36.00 Euro](#)

Electronic version can be found:

[Nuclear–Renewable Hybrid Energy Systems | IAEA](#)

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Managing Human Resources in the Field of Nuclear Energy

IAEA Nuclear Energy Series No. NG-G-2.1 (Rev. 1)

This publication provides guidance on the management of human resources in the field of nuclear energy. It considers this issue at both the individual and organizational level, and the development of an

appropriate human resource management (HRM) strategy. It elaborates on ten key HR processes concerning the management of individual employees, as well as the four broader organizational issues – organizational and safety culture, stakeholder engagement, diversity and inclusion, and change management – to which they relate. It describes the importance of having a correct HRM strategy in place, together with the right level of competent resources, effective processes, and procedures, to support the needs of nuclear organizations.

[STI/PUB/1958](#); 87 pp., 5 figs; 2023; ISBN: 978-92-0-126121-2, English, 38.00 Euro

Electronic version can be found:

[Managing Human Resources in the Field of Nuclear Energy | IAEA](#)

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Hazards Associated with Human Induced External Events in Site Evaluation for Nuclear Installations

IAEA Safety Standards Series No. SSG-79

Hazards associated with human induced external events (HIEEs) need to be considered in the evaluation of sites for nuclear installations, in the design of new nuclear installations and in the operation of existing nuclear installations. This Safety Guide provides recommendations on the evaluation of these hazards in order to meet the requirements set out in IAEA Safety Standards Series No. SSR-1, Site Evaluation for Nuclear Installations. It provides a process for identification of source of HIEEs, screening of hazards using distance and probability, and detailed evaluation to establish hazard and load characterization parameters. This publication is intended for use by organizations involved in the identification, screening, analysis, evaluation and review of hazards associated with HIEEs, and the provision of technical support, as well as regulatory bodies.

[STI/PUB/2036](#), 91 pp.; 2023; ISBN: 978-92-0-144122-5, English, 46.00 Euro

Electronic version can be found:

[Hazards Associated with Human Induced External Events in Site Evaluation for Nuclear Installations | IAEA](#)

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