

## REGIONAL WORKSHOP ON THE MANAGEMENT OF NATIONAL DOSE REGISTRIES

### *Provisional* - PROGRAMME

20 - 24 March 2023  
Bangkok/ Thailand

- Organized by:** The International Atomic Energy Agency (IAEA) in collaboration with the Asian Nuclear Safety Network (ANSN)
- Hosted by:** The Government of Thailand through the Office of Atoms for Peace (OAP)
- Supported by:** The IAEA Technical-Co-operation Project on “Strengthening Radiation Safety Infrastructure (RAS/9/096)”

Occupational exposure to radiation can occur as a result of various human activities, including work associated with the different stages of the nuclear fuel cycle; the use of radiation in medicine, scientific research, agriculture and industry.

The personal (individual) monitoring of workers for occupationally exposed workers and the recording of the radiation doses received by workers for proper occupational exposure control are important aspects of any radiation protection programme. Legal and regulatory framework requirements are described in the GSR Part 1 (Rev.1) : Governmental, Legal and Regulatory Framework for Safety, and GSR Part 3: Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards require unique approaches at national level for continuous improvement and harmonization of approaches for occupational radiation protection and optimization of protection and safety. The Safety Guide on Occupational Radiation Protection (GSG-7) which is jointly sponsored by the IAEA and ILO provides guidance on fulfilling the requirements of GSR Part 3 with respect to occupational exposure and provides recommendations for the collection, analysis, and dissemination of occupational radiation exposure information in the form of national dose registry as a central point for the collection and maintenance of dose records.

Thus, the purposes of the regional workshop are:

- To increase understanding on relevant requirements of GSR Part 1 (Rev.1) & 3 and guidance provided by GSG-7 for the retention of workers’ records of occupational exposure by the regulatory body or a State registry and its implementation,
- To discuss the problems faced at the time of the establishment and during the operation phase of the dose registry with their solutions through group discussions,
- To exchange information on the current status of national dose registries in the region, and
- To provide information on IAEA occupational radiation protection related services and information exchange platforms, such as ORPAS, ISEMIR and ORPNET.

As a result of the regional workshop, the following outputs are expected:

- The regional status of national dose registries will be discussed with the IAEA guidance to improve the relevant capacity for worker protection in the region and opportunities for harmonization.
- The workshop will address how Members States could benefit from the ORPAS review missions, ISEMIR occupational exposure information exchange system and ORPNET network. It is expected the Member States will consider and request ORPAS missions under RAS/9/093 or RAS/9/096 regional projects.

All participants are kindly invited to prepare country presentations to introduce their national perspectives on establishment /management of National Dose Registry (NDR), addressing roles of the NDR, responsibilities (e.g., submission of data), occupational categories, types of doses recorded, special procedures for emergency situations, etc. (by using the presentation template provided by the Secretariat) and submit their country presentations to the IAEA Technical Officer Mr H.B. Okyar by e-mail ([h.b.okyar@iaea.org](mailto:h.b.okyar@iaea.org)) no later than **10 March 2023** (COB).

The documents will be used for discussions during the working group activities; therefore, the documents should preferably be prepared in English.

The regional workshop will be attended by participants from Bangladesh, China, Indonesia, Iran, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mongolia, Myanmar, Oman, Pakistan, Philippines, Saudi Arabia, Singapore, Syria, Thailand, Viet Nam, and Yemen, nominated through ANSN or supported by RAS/9/096 regional project.

Finally, all participants are requested to update the Radiation Safety Information Management System (RASIMS) Thematic Safety Area 2- Occupational Radiation Protection (TSA2) report of their respective countries, if needed or in case of new information.

## 20 March 2023 – Monday (09:00 – 17:00)

<b>08:30 – 09:00</b>	Registration	
<b>09:00 – 09:30</b>	<u>Opening and Introduction</u> Welcoming, Organizational aspects, Workshop objectives and Programme <ul style="list-style-type: none"> <li>○ Introduction of participants</li> </ul>	<i>Mr Permsuk Sutthaphiwat</i> <i>(OAP, Secretary General)</i> <i>Ms Pennapa Kanchana</i> <i>(Deputy Secretary General,</i> <i>Workshop Director)</i> <i>Mr Burçin Okyar (IAEA)</i>
<b>09:30 – 10:30</b>	<u>Introduction and Framework for Occupational Radiation Protection</u> <ul style="list-style-type: none"> <li>○ IAEA Safety Standards</li> <li>○ Framework for ORP</li> <li>○ Radiation Protection Programme</li> <li>○ Monitoring programmes</li> <li>○ Record keeping and Management systems</li> </ul>	<i>B. Okyar</i>
<b>10:30 – 11:00</b>	Coffee break	
<b>11:00 – 11:30</b>	<u>Overview and experiences on Dose Registry in Thailand</u>	<i>R. Takam (OAP)</i>
<b>11:30 – 12:00</b>	<u>IAEA Safety Requirements on Dose Registries</u> <ul style="list-style-type: none"> <li>○ Establishment of NDRs</li> <li>○ The basis for implementation of an NDR</li> <li>○ Role of the NDR</li> <li>○ Occupational categories in the NDR</li> <li>○ Responsibility for the submission of dose records to the NDR</li> </ul>	<i>B. Okyar</i>
<b>12:00 – 13:00</b>	Lunch break	
<b>13:00 – 14:30</b>	<u>IAEA Safety Requirements on Dose Registries (Cont'd)</u> <ul style="list-style-type: none"> <li>○ Required information and types of doses recorded by NDRs</li> <li>○ Special procedures for managing overexposure and/or emergency doses by NDRs</li> <li>○ Reporting periods for submission of data</li> <li>○ Dose records and Record Keeping based on Safety Guide on “Occupational Radiation Protection” &amp; Dose Management System (DMS)</li> </ul>	<i>B. Okyar</i>
<b>14:30 – 15:00</b>	Coffee break	
<b>15:00 – 17:00</b>	<u>Country presentations</u> <ul style="list-style-type: none"> <li>○ Instructions by the IAEA</li> <li>○ Introduction of the National Dose Registry by using a template</li> <li>○ Maximum 15 min. per country</li> </ul>	Bangladesh, China, Indonesia, Iran, Japan, Jordan, Kuwait, and Lebanon

## 21 March 2023 – Tuesday (09:00 – 17:00)

<b>09:00 – 10:30</b>	<u>SSR – Implementation of a National Dose Register in Germany "Strahlenschutzregister"</u>	<i>U. Oeh (Germany)</i>
	<ul style="list-style-type: none"> <li>○ SSR background</li> <li>○ BfS regulatory structure</li> <li>○ Engagement with industries</li> <li>○ Privacy requirements</li> <li>○ Establishing legal frameworks</li> <li>○ Moving forward with the SSR</li> </ul>	
<b>10:30 – 11:00</b>	Coffee break	
<b>11:00 – 12:00</b>	<u>SSR operation (demo session)</u>	<i>U. Oeh</i>
<b>12:00 – 13:00</b>	Lunch break	
<b>13:00 – 14:30</b>	<u>Data Analysis</u>	<i>B. Paritsky (Australia)</i>
	<ul style="list-style-type: none"> <li>○ Analysis</li> <li>○ Occupational dose, exposure pathways</li> <li>○ Missing values</li> <li>○ Data validation</li> <li>○ Data linkage</li> </ul>	
<b>14:30 – 15:00</b>	Coffee break	
<b>15:00 – 17:00</b>	<u>Country presentations (Cont'd)</u>	Malaysia, Mongolia, Myanmar, Oman, Pakistan, Philippines, Saudi Arabia, and Singapore

## 22 March 2023 – Wednesday (09:00 – 17:00)

<b>09:00 – 10:30</b>	<u>ANRDR – Implementation of a National Dose Register in Australia</u>	<i>B. Paritsky</i>
	<ul style="list-style-type: none"> <li>○ ANRDR background</li> <li>○ Australian regulatory structure</li> <li>○ Engagement with industries</li> <li>○ Privacy requirements</li> <li>○ Establishing legal frameworks</li> <li>○ Moving forward with the ANRDR</li> </ul>	
<b>10:30 – 11:00</b>	Coffee break	
<b>11:00 – 12:00</b>	<u>ANRDR operation (demo session)</u>	<i>B. Paritsky</i>
<b>12:00 – 13:00</b>	Lunch break	
<b>13:00 – 14:00</b>	<u>Country presentations (Cont'd)</u>	Syria, Thailand, Viet Nam, and Yemen

<b>14:00 – 15:30</b>	<u>Site visit- Secondary Standard Dosimetry Laboratory (SSDL) &amp; Internal Dosimetry Laboratory at OAP</u>	<i>Dr Vithit Pungkun (Head of Ionizing Radiation Metrology Section) &amp; Ms Jittima Bangvirunrak (Radiation Assessment Section, OAP)</i>
<b>15:30 – 17:00</b>	<u>Site visit- Individual Monitoring Service at Department of Medical Sciences</u>	<i>Mr Tewit Tungkasereeruk (Radiation Physicist)</i>

### 23 March 2023 – Thursday (09:00 – 17:00)

<b>09:00 – 10:30</b>	<u>Working Groups</u> <ul style="list-style-type: none"> <li>○ Discussions on the strengths, good practices and gaps within the NDRs and on enhancing the situation through the application of the IAEA Safety Standards.</li> <li>○ Each working group assigns a chairperson and a rapporteur.</li> <li>○ Following the discussions, each group should prepare a presentation to address the major findings.</li> <li>○ See below table for the composition of working groups.</li> </ul>	
<b>10:30 – 11:00</b>	Coffee break	
<b>11:00 – 12:00</b>	<u>Working Groups (Cont'd)</u>	
<b>12:00 – 13:00</b>	Lunch break	
<b>13:00 – 14:30</b>	<u>ORPNET- Occupational Radiation Protection Network</u> <u>ARAN- Asia and the Pacific Regional ALARA Network</u> and its core role for networking	<i>B. Okyar Q. Cao (ARAN)</i>
<b>14:30 – 15:00</b>	Coffee break	
<b>15:00 – 17:00</b>	<u>ISEMIR- Information System on Occupational Exposure in Medicine, Industry and Research</u> <u>ORPAS- Occupational Radiation Protection Appraisal Service</u>	<i>B. Okyar</i>



## 24 March 2023 – Friday (09:00 – 12:00)

<b>09:00 – 10:30</b>	<u>Presentations of the Working Groups</u>	<i>WG Chairperson</i>
	<ul style="list-style-type: none"> <li>○ Presentations by the Chairperson of each working group</li> <li>○ <i>Maximum 15-minute per working group</i></li> <li>○ <i>Max 10-minute discussion per working group</i></li> </ul>	
<b>10:30 – 11:00</b>	Coffee break	
<b>11:00 – 11:30</b>	<u>General Discussion &amp; Remarks</u>	<i>B. Okyar</i>
	Workshop summary	<i>P. Kanchana</i> <i>(Workshop Director)</i>
<b>11:30 – 12:00</b>	<u>Closing</u>	<i>Mr B. Okyar (IAEA)</i> <i>Ms P. Kanchana (Workshop Director)</i> <i>Mr P. Sutthaphiwat</i> <i>(Secretary General, OAP)</i>

## WORKING GROUPS

- Group 1:** Bangladesh, China, Indonesia, Iran, and Japan    ***Moderator:*** *Burçin Okyar*
- Group 2:** Jordan, Kuwait, Lebanon, Malaysia, and Mongolia    ***Moderator:*** *Uwe Oeh*
- Group 3:** Myanmar, Oman, Pakistan, Philippines, and Saudi Arabia    ***Moderator:*** *Ben Paritsky*
- Group 4:** Singapore, Syria, Thailand, Viet Nam, and Yemen    ***Moderator:*** *Rungdham Takam*