



Technical Meeting on the Implications of the International Commission on Radiation Units and Measurements Report 95 on Operational Quantities for External Radiation Exposure

21–23 October 2024

Ref. No.: EVT2402557

Information Sheet

Introduction

In radiation protection, operational quantities are used for the purpose of measurement of external exposure to ionizing radiation. Those quantities are intended to provide conservative estimates of protection quantities. To account for the known shortcomings in the current definitions, the International Commission on Radiation Units and Measurements (ICRU) Report 95 published in 2020 recommends an alternative approach to the definitions, related to the same phantoms that are used to calculate protection quantities.

Recognizing the potential benefits of this alternative approach, important questions and concerns need to be addressed to facilitate a decision on adoption and assure continuous trust in the radiation protection system. Evidence of sufficient benefit for workers in general and, specifically, for real workplaces is not proven. Open questions remain regarding a critical analysis of financial implications, practicality, and impact of the new definitions on radiation protection practices.

Objectives

The Technical Meetings aims to discuss the current knowledge and identify gaps on how adoption of the new operational quantities would impact radiation protection practices in various fields of occupation. It shall raise awareness among relevant stakeholders to consider, present and document potential implications of those new operational quantities for occupational radiation protection. This encompasses, inter alia, aspects of monitoring system redesign, calibration, standardization, regulation, radiation protection

practices and training needs. This meeting will be held as part of the development of a dedicated IAEA Technical Document (IAEA-TECDOC).

Target Audience

All Member States and International Organizations: Labour organizations, legislators, licensees and qualified experts, manufacturers of monitoring systems, metrology laboratories, monitoring services, standardization bodies, health authorities and regulators.

Working Language

English.

Expected Outputs

It is expected to give all stakeholders the opportunity to present their opinions and to discuss their questions for consideration in the TECDOC under development.

Structure

Keynote lectures are setting the scene and emphasizing foreseen implications. Stakeholder presentations from the target audience are encouraged to foster discussion and collect participants' input. Abstracts shall be submitted prior to the event. Additional requirements are given below.

Topics

The topics to be discussed will focus on practical consequences of possible implementation of the ICRU Report 95 defined operational quantities in the following areas:

- **Monitoring systems**
Dosimeter redesign and type testing, management of dose registries, ...
- **Calibration and reference fields**
Adaptation of standards, calibration procedures, ...

- **Radiation protection practices**
Perception and consequences of changed dose values and units, impact on dose assessment in inhomogeneous radiation fields, ...
- **Education and training**
Provision of training pool for stakeholders, measures to avoid confusion among workers and qualified experts, ...

Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State or invited organization, participants are requested to submit their application via the InTouch+ platform (<https://intouchplus.iaea.org>) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **27 August 2024**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):
 - Persons with an existing NUCLEUS account can sign in to the platform with their username and password;
 - Persons without an existing NUCLEUS account can register [here](#).
2. Once signed in, prospective participants can use the InTouch+ platform to:
 - Complete or update their personal details under ‘Complete Profile’ and upload the relevant supporting documents;
 - Search for the relevant event under the ‘My Eligible Events’ tab;
 - Select the Member State or invited organization they want to represent from the drop-down menu entitled ‘Designating Authority’ (if an invited organization is not listed, please contact InTouchPlus.Contact-Point@iaea.org);
 - If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
 - Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
 - Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

NOTE: The application for financial support should be made, together with the submission of the application, by **27 August 2024**.

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and technical matters.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event.

The application for financial support should be made, together with the submission of the application, through the InTouch+ platform (<https://intouchplus.iaea.org>) by **27 August 2024**.

Venue

The event will be held in the Meeting Room M6, Building M of the Vienna International Centre (VIC) where the IAEA's Headquarters are located. Participants must make their own travel and accommodation arrangements.

General information on the VIC and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, are listed on the following IAEA web page:
<https://www.iaea.org/events>.

Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

Additional Requirements

Participants are strongly encouraged to familiarize themselves with the content of [ICRU Report 95](#) and get acquainted with associated background information, such as:

- Bureau International des Poids et Mesures (BIPM)–Consultative Committee for Ionizing Radiation (CCRI) [Webinar](#),
- Inter-Agency Committee on Radiation Safety (IACRS) [Information Overview](#),
- European Radiation Dosimetry Group (EURADOS) [Report 2022-02](#),
- EURADOS [Webinar](#).

Abstracts submitted for presentation are expected to elaborate on the stakeholder’s view of potential implications of the ICRU Report 95 defined operational quantities, *inter alia* considering the following guiding questions:

- Are you aware of the possible impact of adoption of the ICRU Report 95 operational quantities?
- Where do you see clear benefits from introducing these quantities?
- What do you consider the biggest challenge associated with implementation?
- Is the expected financial effort feasible?
- What might be the consequences of changed dose indications on work practices in your field?
- From your perspective, what are the main research needs?
- What is the required timeframe for potential implementation of these quantities in your field?
- How could professional networks assist the decision-making process?
- How do you see the role of the IAEA in that process?

IAEA Contacts

Scientific Secretary:

Messrs Rodolfo Cruz Suárez and Michael Hajek

Division of Radiation, Transport and Waste Safety

Department of Nuclear Safety and Security

International Atomic Energy Agency

Vienna International Centre

PO Box 100

1400 VIENNA

AUSTRIA

Tel.: +43 1 2600 22713 or 22712

Fax: +43 1 26007

Email: R.Cruz-Suarez@iaea.org; M.Hajek@iaea.org

Administrative Secretary:

Ms Ekaterina Panteleymonova

Division of Radiation, Transport and Waste Safety

Department of Nuclear Safety and Security

International Atomic Energy Agency

Vienna International Centre

PO Box 100

1400 VIENNA

AUSTRIA

Tel.: +43 1 2600 22717

Fax: +43 1 26007

Email: E.Panteleymonova@iaea.org

Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.