

Free Webinars on Occupational Radiation Protection

🛗 27 May 2020, 🙋 4-5 pm CET

27 May 2020

Continuity in COVID-19 pandemic: How to run effective technical services for individual monitoring during a pandemic



ORPU / RSTSU Webinar



27 May 2020

Continuity in COVID-19 pandemic: How to run effective technical services for individual monitoring during a pandemic

Organized jointly with

- European Radiation Dosimetry Group
- Greek Atomic Energy Commission



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EURADOS

EEAE









https://www.iaea.org/topics/radiation





Welcome to the ORP webinar organized in collaboration with RSTSU 甾27 May 2020 ② 4-5 pm CET

Moderator: H. Burçin Okyar Occupational Radiation Protection Unit, NSRW/IAEA



27 May 2020

Continuity in COVID-19 pandemic: How to run effective technical services for individual monitoring during a pandemic



RSTSU: <u>https://www.iaea.org/topics/workers/radiation-safety-technical-services</u>

Welcome note from David Tucker Head of Radiation Safety Technical Service Unit



Webinar on "Continuity in COVID-19 pandemic: How to run effective technical services for individual monitoring during a pandemic"

International Basic Safety Standards



 An integrated and consistent set of Safety Requirements that establishes the requirements that must be met to ensure the protection of people and the environment, both now and in the future.

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IAEA Safety Standards	• Pro
for protecting people and the environment	act
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Radiation Protection and	• Oc
Safety of Radiation Sources: International Basic	• 52
Safety Standards	he
Jointly sponsored by EC, FAO, IAEA, ILO, OECDINEA, PAHO, UNEP, WHO IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIII	(te
General Safety Requirements Part 3	• 12
No. GSR Part 3	• Re
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- GSR Part 3 (BSS) follows ICRP 103 recommendations
- Protection and Safety requirements of the GSR Part 3 apply to all facilities and activities
- Planned, emergency and existing exposure situations
- Occupational, public and medical exposure categories
- 52 overarching requirements for **governments**, **regulatory bodies**, **industry**, **health and safety professionals**, **workers**, public and **service providers** (technical support organizations)
- 12 requirements for ORP; Control, monitoring and recording
- Regulatory body, TSPs & Operators
- The regulatory body shall be responsible, as appropriate, for authorization or approval of service providers for individual monitoring and calibration services

GSG-7: TSP categories



IAEA Safety Standards	 Any technical service providers for protection and safety should be qualified by certain procedures.
for protecting people and the environment	Calibration and testing/assay services
Occupational	 Monitoring (individual, workplace and environmental)
Radiation Protection	 Calibration and calibration verification for monitoring devices and radiation sources
	Consultancy and maintenance
General Safety Guide No. GSG-7	 Radiation safety consultancy
	 Shielding calculations
	 Modelling for dose assessment, containment and ventilation

- Maintenance services (in-house & contracted)
- Decontamination
- Organization or organizational unit designated, or otherwise recognized by a regulatory body and/or a government, to provide expertise and services to support nuclear and radiation safety and all related scientific and technical issues.

GSG-7: Management systems



IAEA Safety Standards
for protecting people and the environment
Occupational Radiation Protection
No. GSG-7

- The management system of a TSP using radiation should meet the requirements and recommendations of all relevant IAEA safety standards
- The management system for TSPs should be graded to the scope of their activities
- Documentation include policies, processes and procedures, and instructions
- Any new features to be included ...

Today's Learning objectives



Participants of the webinar will learn about:

- Adoption of the IAEA GSR Part 3 requirements and GSG-7 guidance for technical service providers during the current COVID-19 pandemic
- EURADOS recommendations for technical service providers to deal with the COVID-19 pandemic
- Strategies for practical implementation by service providers
- Experience of the IAEA Radiation Safety Technical Services and measures for the continuity of operations



Today's Speakers: Filip Vanhavere

Head of the Radiation Protection Dosimetry and Calibration Group

Since 2018, Deputy Director of the Institute of Environment, Health and Safety at the SCK CEN

Elected EURADOS Chair





Today's Speakers: Eleftheria Carinou

Medical Physicist, MSc, PhD.

Deputy Director of the Division of Licensing and Inspections & Head of Personal Dosimetry Department of Greek Atomic Energy Commission







RSTSU: <u>https://www.iaea.org/topics/workers/radiation-safety-technical-services</u>

Today's Speakers: Michael Hayek External Dosimetry Specialist

Preliminary assessment of the brief survey results



HOW.	TO RUN EFFECTIVE SERVICES OF
	DUAL MONITORING DURING THE
PAND	
SURVEY FOR IAEA 27.05.20	THE WEBINAR ON CONTINUITY IN COVID-19 PANDEMIC 220 16:00 CET
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	of technical services are you involved? *
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2. Is your technical service authorized or approved by the respective national regulatory body? st

O Yes

O No

- 10 questions to understand the participant's practices & measures introduced during COVID-19
 - Type of Services
 - Authorization/approval
 - Continuity during C-19 (monitoring period, use of PPE, new procedures, etc.)



Roman Abutalipov Associate Radiation Safety Officer

1. What kind of technical services are you involved?



95%

2. Is your technical service authorized or approved by the respective national regulatory body? *



O No

3. For which of the following radiation types are you able to provide a dosimetry service?





5. Did you use any supplementary personal protective equipment (PPE) for staff protection?

■No ■Yes, masks Yes, eyeglasses/screens and masksYes, masks and gloves

6. Did you apply any additional measures to collect/ to ship badges or any other types of samplers?





10. Do you need any additional guidance material for safe operation of your service under pandemic conditions?



100% had no contamination incidents

9. Did you have any incidents/accidents in the period of COVID-19 pandemic involving personal * or equipment contamination?



Yes

• Laboratory operation during virus pandemic (including infection control protocol)

 Handling and disinfection of the dosimeters (including facial samples, dosimeters from hospitals)

Upcoming webinars

Topics to be addressed;

- Individual monitoring with radiophotoluminescence (RPL) passive dosimeters
- Individual monitoring with optically stimulated luminescence (OSL) passive dosimeters
- Thermoluminescent Dosimeters (TLD) and maintenance of readers
- Establishment and Operation of Management Systems for TSPs
- Surface contamination monitoring and calibration
- Internal dosimetry State of the art practices (In-vivo & in-vitro)
- Artificial intelligence, virtual reality how these affecting worker protection
- Personal Protective Equipment- Lessons learned from the shortage during the COVID-19 pandemic
- Recognition as a third party and laboratory accreditation demonstration of fulfilment

Watch the announcements @

ORP webinars web-page: https://www.iaea.org/topics/radiation-safety/webinars

Occupational Radiation Protection NETworks

Thank you for your participation



IAEA ORPNET: <u>https://nucleus.iaea.org/sites/orpnet/home/SitePages/Home.aspx</u> IAEA ORP Webinars: <u>https://www.iaea.org/topics/radiation-safety/webinars</u>

We invite proposal submissions for consideration in our webinar seriesContact us atOccupational-Protection-Unit.Contact-Point@iaea.org