VIRTUAL TECHNICAL MEETING ON THE ASSESSMENT AND EVALUATION OF THE OCCUPATIONAL RADIATION PROTECTION APPRAISAL SERVICE (ORPAS)

13 - 17 September 2021
11:00- 14:00 (CET)
## Opening session and setting the scene
13 September 2021

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 – 11:20</td>
<td>Welcome address</td>
<td>P. Johnston, Director NSRW</td>
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<td>M. Piňák, Section Head RSM</td>
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<td></td>
<td>Scene setting/logistics</td>
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<tr>
<td></td>
<td>Meeting objectives, scope, programme,</td>
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<td>expected outcomes, administrative issues</td>
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<td>and introduction of TM Chairperson &amp;</td>
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<td></td>
<td>Rapporteur</td>
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<td>B. Okyar (IAEA, Scientific Secretary)</td>
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</table>
**Administrative Issues & Logistics**

- Daily meetings from 13 to 17 September 2021
- Start time: 11:00 (for 3 hours, break for 5 min after 1.5 hrs with polling Qs)
- WebEx invitations to be used everyday, circulated on 27 August (daily reminder will be sent)
  - Participants will be muted during presentations. Use of headset with microphone is absolutely recommended
  - “Be aware of your background”, consider using virtual background *(except bandwidth issues)*
  - Highly desirable if you turn on your camera (not only your voice), improves the communications
  - Use your virtual hand to ask questions (or for your interventions) or type in the Chat or Q&A boxes (we will watch and inform the TM Chair)
- For speakers or panellists, Secretariat is responsible for IT and display of presentations (depending on your choice)
- Discussions are the core of business and notes to taken by the Secretariat & the assigned Rapporteur
Team – Secretariat

Management

- Miroslav Pinak
  RSM Section Head

Scientific Secretary

- Burçin Okyar
  ORPU

Administrative Secretary

- Szende Elias
  ORPU

Technical & IT Support

- Patrick Williams
  ORPU

ORPU Head

- Jizeng Ma
Resolutions adopted on Nuclear and Radiation Safety

- The General Conference requested the Secretariat
  - to continue improving the effectiveness and efficiency of missions using lessons learned from relevant past experiences, in close cooperation with Member States and encouraged Member States to request these services as appropriate.
**Objective**: The event aims to serve as a forum for interested MSs to discuss lessons learned from completed ORPAS missions and commonly encountered difficulties based on the experience gained, and to share best practices and strategies used in the review.

**Topics to be covered during the meeting**:
- ORPAS Guidelines and Collaboration Platform
- Observations from the completed reviews
- Approach for nuclear embarking and expanding countries
- Questionnaires and SARIS
- ORPAS Database – information exchange platform
- Training for reviewers
- Hybrid and virtual and missions
- Recommendations, Suggestions, Good practices and links to Action Plans
- Concept of advisory missions
- Side events for regional networks
- Outlook, Perspectives, and Demands
- Event for the celebration of 20th anniversary of ORPAS
ORPAS TM

- **Target Audience:** Primarily intended for regulatory staff, representatives of Technical Service Providers and operators of MSs, who have a good understanding of the ORPAS process and its guidelines, and who have been directly involved in the preparation and conduct of ORPAS missions and/or follow-up of ORPAS missions and interested MSs.

  - Announced: 30 April 2021
  - Deadline for nominations through official channels: 13 August 2021

- **Participants:** 73 (gender parity %53.5)
- **Member States:** 40 (EU: 16, A&P: 15, AF: 6, LA:3)
- **Invited IOs:** UNSCEAR, ICRP, ICRU, ILO
- **Networks:** ARAN, AFAN, EAN, REPROLAM, ENA, EURADOS, ARADOS and ISOE
- **Speakers & Panellists:** 25
VIRTUAL TECHNICAL MEETING ON THE ASSESSMENT AND EVALUATION OF THE OCCUPATIONAL RADIATION PROTECTION APPRAISAL SERVICE (ORPAS)
13-17 September 2021

Monday, 13 September 2021

Opening session and setting the scene
Moderator

Panel Chair: B. Okur (IAEA)

Session 1: ORPAS missions: results achieved and lessons learned
Objective: Status of ORPAS missions and reviews of the IAEA and available tools/services.

11:20 - 11:40 ORPAS programme implementation: Results achieved, Statistics, Guidelines and Collaboration Platform
B. Olver (IAEA)

11:40 - 12:00 First mission in Slovenia - Good practices since the beginning
H. Janželcovšč (Slovenia)

12:00 - 12:20 Experience of the ORPAS mission conducted in Sri Lanka and outcomes
P. D. Mahanamuna (Sri Lanka)

12:20 - 12:40 ORPAS Database – Introduction of the management & analysis platform
P. Williams (IAEA)

12:40 - 13:00 ORPAS References, Questionnaires and SAR1 self-assessment
I. Petrovčič (Czech Republic) / I. Ikotaju (IAEA)

13:00 - 13:50 Round-robin brainstorming in general, ORPAS database, feedback to the initial design, Questionnaires and suggestions for possible improvements
All

13:50 - 14:30 Virtual celebration of the 20th anniversary of ORPAS (group photo)
Moderator

Tuesday, 14 September 2021

Session 2: Focus on regional assessment of ORPAS missions: results achieved, and lessons learned
Objective: Feedback from countries, preparatory meetings, workshops, follow-up missions, how did the ORPAS got! Personal views / observations from completed mission, identification of priority focus areas.

11:00 - 11:30 Latin America and Caribbean region
L. Matteo (Brazil) / L. Vasconcellos de Souza (Brazil)

11:30 - 12:00 African region
J. Amsalu (Ethiopia) / L. Ben Omran (Tunisia)

12:00 - 12:30 Asia and the Pacific region
T. Ito Lin (Malaysia) / M.H. Kharita (Qatar)

12:30 - 13:00 European region
E. Carnin (Greece) / E. Dubreil (Bosnia and Herzegovina)

13:00 - 13:40 Round-robin brainstorm
All
**ORPAS TM**

- **Expected outcomes:**
  - Identification of achieved results and lessons learned
  - Experience of OPRAS Teams from completed missions
  - Areas for possible improvements (note that methodology reflects the Agency approach)

- **However, more focus is requested by the Secretariat for the following:**
  - ORPAS Database (Secretariat proposal)
  - Strategy for ORPAS training programmes (reviewers) & refreshers
    - Training courses for self-assessment on ORPAS questionnaires
  - Strategy for postponed missions
  - Interested Member States
  - ORPNET (new design to be a part of iaea.org)
Management of ORPAS TM

• **Technical Meeting Chairperson**
  Helena Janžekovič
  Physicist, Senior Inspector Counsellor
  Slovenian Nuclear Safety Administration

• **Technical Meeting Rapporteur**
  Kristine Marie D. Romallosa
  Head, Radiation Protection Services Section
  Nuclear Services Division
  Philippine Nuclear Research Institute
<table>
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<th>Time</th>
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<td>ORPAS References, Questionnaires and SARIS self-assessment</td>
<td>I. Petrová (Czech Republic)</td>
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<td>Round-robin brainstorm in general, ORPAS database, feedback to the initial design, Questionnaires, and suggestions for possible improvements</td>
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<td>Moderator</td>
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</table>
Round table-1

- Feedback from the participants on ORPAS database design, content, possible interfaces (note that it will be only for the Agency use)
  - Do we want the ORPAS database to be a tool that just stores the past missions and lets us interact with the data easily, or do we want the ORPAS database tool to be something reviewers would use while on mission to look at requirements, prior recommendations, etc in order to make better recommendations while in the field?”

- Feedback for ORPAS questionnaires and SARIS for self-assessment? Are they useful?

- Suggestions for new ORPAS questionnaires and possible improvements.
VIRTUAL TECHNICAL MEETING ON THE ASSESSMENT AND EVALUATION OF THE OCCUPATIONAL RADIATION PROTECTION APPRAISAL SERVICE (ORPAS)

DAY 2

📅 14 September 2021
⏰ 11:00- 14:00 (CET)
Session 2: PANEL on regional assessment of ORPAS missions: Results achieved, and lessons learned

**Objective:** Feedback from countries, preparatory meetings, missions and follow-up missions, how did the ORPAS go? Personal views/observations from completed missions, identification of priority/focus areas

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<th>Speakers</th>
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</table>
| 11:00 – 11:30 | Latin America and Caribbean region | L. Matta (Brazil)  
L. Vasconcellos de Sá (Brazil) |
| 11:30 – 12:00 | African region                | J. Amoako (Ghana)  
L. Ben Omrane (Tunisia) |
| 12:00 – 12:30 | Asia and the Pacific region   | T. Iyu Lin (Malaysia)  
M.H. Kharita (Qatar) |
| 12:30 – 13:00 | European region               | E. Carinou (Greece)  
E. Dizdarevic (Bosnia and Herzegovina) |
| 13:00 – 14:00 | Round-robin brainstorm        | All                                          |

Panel Chair

M. Nahar (Bangladesh)
Round table-2

- Feedback from the participants on ORPAS;
  - Preparatory meetings,
  - Missions
  - Follow-up missions
- What are the regional dynamics? Any specific observations based on regional assessments!
- Any specific observations/ findings for the application of GSR Part 3 requirements and GSG-7 recommendations
VIRTUAL TECHNICAL MEETING ON THE ASSESSMENT AND EVALUATION OF THE OCCUPATIONAL RADIATION PROTECTION APPRAISAL SERVICE (ORPAS)

DAY 3

📅 15 September 2021
⏰ 11:00-14:00 (CET)
### Session 3: ORPAS missions: What needs to be done: fields for future improvements, the way forward

**Objective:** Virtual missions, ORPAS recommendations, suggestions and good practices, expectations from and preparations for the ORPAS missions, ways to transfer related recommendations forward

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Country</th>
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<tbody>
<tr>
<td>11:00 – 11:20</td>
<td>Virtual Preparatory Meeting to ORPAS</td>
<td>V. Drábová (Slovak Republic)</td>
</tr>
<tr>
<td>11:20 – 11:40</td>
<td>Recommendations, Suggestions, Good practices, and links to Action Plans – An example</td>
<td>B. Petrović (Bosnia and Herzegovina)</td>
</tr>
<tr>
<td>11:40 – 12:00</td>
<td>Approach for nuclear embarking and expanding countries - An example</td>
<td>B. S. Al Ameri (United Arab Emirates)</td>
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<tr>
<td>12:00 – 12:20</td>
<td>RASIMS and TSA2, review &amp; assessment tool for ORPAS Appraisal Team</td>
<td>J.T. Zerquera / B. Okyar (IAEA)</td>
</tr>
<tr>
<td>12:40 – 13:00</td>
<td>ORPAS training for the Appraisal Team – mutual learning opportunities</td>
<td>B. Okyar (IAEA)</td>
</tr>
<tr>
<td>13:00 – 13:20</td>
<td>TC projects and support for the ORPAS missions – an internal stakeholder</td>
<td>M. Binti Mishar (IAEA)</td>
</tr>
<tr>
<td>13:20 – 14:00</td>
<td>Round-robin brainstorm</td>
<td>All</td>
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**Session Chair**

E. Carinou (Greece)
Round table-3

- Any experience to be shared for the very first virtual ORPAS in Slovakia, any strategies or tools that might be used earlier for example during inspection.

- With reference to the 2020 virtual workshop, a limited (narrow focus) ORPAS was discussed for the countries with limited infrastructure for ORP (limited scope RP legislation, very few technical service providers -mainly for external dosimetry with TLD or OSL-, limited number of operators -mainly in the medical field-. As a follow-up, Secretariat still keeps the same position that ORPAS is flexible enough to adjust the scope of mission based on the ORPAS Guidelines (see 2.1, 3, 4). What could be the strategy?

- 3. Impact of AI, ML, and other innovative technologies into OPRAS for future missions.
VIRTUAL TECHNICAL MEETING ON THE ASSESSMENT AND EVALUATION OF THE OCCUPATIONAL RADIATION PROTECTION APPRAISAL SERVICE (ORPAS)

DAY 4

📅 16 September 2021
⏰ 11:00-14:00 (CET)
Session 4: PANEL on ORPNET as member of GNNSN, hub for information exchange on optimization

**Objective:** Role of international / regional networks for optimization, flagship ALARA networks and strategies to connect, communicate and collaborate with member Networks

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:00 – 11:20</td>
<td>Historical background and role of Networks</td>
<td>J. Ma (IAEA)</td>
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<tr>
<td>11:20 – 11:40</td>
<td>Launch of new ORPNET website &amp; features</td>
<td>P. Williams (IAEA)</td>
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<tr>
<td>11:40 – 11:50</td>
<td>Asia and the Pacific ALARA Network (ARAN)</td>
<td>C. Rizk</td>
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<td>11:50 – 12:00</td>
<td>European ALARA Network (EAN)</td>
<td>F. Vermeersch</td>
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<td>12:00 – 12:10</td>
<td>African ALARA Network (AFAN)</td>
<td>W. E. Muhogora</td>
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<td>12:10 – 12:20</td>
<td>Latin America Occupational Radiation Protection Optimization Network</td>
<td>H. Khoury</td>
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<td>(REPROLAM)</td>
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<td>12:20 – 12:30</td>
<td>European Dosimetry Group (EURADOS)</td>
<td>F. Vanhavere</td>
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<tr>
<td>12:30 – 12:40</td>
<td>Asian Dosimetry Group (ARADOS)</td>
<td>O. Kurihara</td>
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<td>12:40 – 12:50</td>
<td>European NORM Association (ENA)</td>
<td>C. Kunze</td>
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<td>12:50 – 13:10</td>
<td>Information System on Occupational Exposure in Medicine, Industry and</td>
<td>G. Yuan, J. Vassileva, B.</td>
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<td></td>
<td>Research (ISEMIR)- IR, IC &amp; NORM</td>
<td>Okyar (IAEA)</td>
</tr>
<tr>
<td>13:20 – 14:00</td>
<td>Round-robin brainstorm</td>
<td>All</td>
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Panel Chair: S. Niu (ILO)
Round table-4

- Feedback from the participants on the new ORPNET web-page design, content (note that it will be a part of iaea.org).
- Strengthening the relationships: How to establish a communication mechanism between the IAEA Secretariat and ALARA networks for regular information exchange and for updates? (establish a list of contact points, preferably the Secretary of networks)
- New topics to be added (e.g., establishment of a forum)
- Reminder: Chairs / Secretaries of international / regional networks to double check the drafts, sent by the Secretariat to get their final approval for ORPNET pages
VIRTUAL TECHNICAL MEETING ON THE ASSESSMENT AND EVALUATION OF THE OCCUPATIONAL RADIATION PROTECTION APPRAISAL SERVICE (ORPAS)

**DAY 5**

📅 17 September 2021
⏰ 11:00-14:00 (CET)
Session 5: International landscape, future challenges and opportunities in the field of radiation protection of workers

**Objective:** Information collection on new or upcoming reports relevant to occupational exposure from international organisations

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>11:00 – 11:20</td>
<td>UNSCEAR Report on Evaluation of Occupational Exposure to Ionizing Radiation</td>
<td>B. Batandjieva-Metcalf (UNSCEAR)</td>
</tr>
<tr>
<td>11:20 – 11:40</td>
<td>Keeping the ICRP Recommendations Fit for Purpose</td>
<td>W. Rühm (ICRP)</td>
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<tr>
<td>11:40 – 12:00</td>
<td>ICRU Report 95: Operational Quantities for External Radiation Exposure</td>
<td>T. Otto (ICRU)</td>
</tr>
<tr>
<td>12:00 – 12:20</td>
<td>IACRS Statement on Managing Exposure due to Radon at Home and at Work</td>
<td>M. Piňák (IAEA)</td>
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<tr>
<td>12:20 – 12:40</td>
<td>ILO highlights on worker protection and information on the 2022 International Conference on Occupational Radiation Protection</td>
<td>S. Niu (ILO)</td>
</tr>
<tr>
<td>12:40 – 12:50</td>
<td>Information on the 10th International Symposium on Naturally Occurring Radioactive Material (NORM X)</td>
<td>G. Jonkers (NORM X Board Member)</td>
</tr>
<tr>
<td>13:00 – 14:00</td>
<td>Rapporteur Summary, concluding remarks and closing</td>
<td>K. Romallosa (Philippines)</td>
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**Session Chair:**

H. Janžekovič (Slovenia)
<table>
<thead>
<tr>
<th>Time</th>
<th>Discussion</th>
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</table>
| 13:00 – 14:00 | Rapporteur Summary  
Concluding remarks  
TM Chairperson |
|            | K. Romallosa (Philippines)                                                  |
|            | H. Janžekovič (Slovenia)                                                   |
|            | M. Piňák, Section Head RSM                                                 |
Thank you