Proposed revision of EPReSC Mid Term Plans for Development of Safety Standards and guidance in EPR (Road Map)

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Outline

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• Update of Status of current Priorities
• Criteria to be considered
• Inputs and discussions of the eWG created at EPReSC8
• Proposal for new/revised SGs to be developed/Topics to be addressed
• Proposed new EPReSC Road Map
Introduction

- Proposed Long Term Structure of SSs in EPR
Introduction (Cont.)

- Current Long Term Structure of IAEA SSs
Introduction (Cont.)

Current EPReSC Road Map (as approved at EPReSC-5)

Activities to:
- Identify exact topical and category specific safety guides to be developed in EPR area;
- Prioritize EPR safety guides for development;
- Develop DPP for priority safety guides.

Other EPR related Safety Standards under development or revision. For example, DS453 on occupational radiation protection addressing the protection of emergency workers completed in 2015 or the revision of RS-G-1.8 to commence in 2017 addressing monitoring and dose assessment in an emergency exposure situation.

EPR Series documents under development or revision. For example, EPR Series documents on Protection strategy development, Methodology for OILs development, On-site EPR for facilities and activities in categories 1 to 4, Combined emergencies etc.
## Update of Status of current Priorities

<table>
<thead>
<tr>
<th>Working ID</th>
<th>Title</th>
<th>Step</th>
<th>Expected Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSG-11 (DS474)</td>
<td>Arrangements for the Termination of a Nuclear or Radiological Emergency</td>
<td>Published in March 2018</td>
<td>N/A</td>
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<tr>
<td>GSG-14 (DS475)</td>
<td>Arrangements for Public Communication in Preparedness and Response for a Nuclear or Radiological Emergency</td>
<td>In publication process (undergoing editing by PC).</td>
<td>Publication expected in 2020</td>
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<tr>
<td>DS469</td>
<td>Preparedness and Response for an Emergency during the Transport of Radioactive Material (revision of TS-G-1.2)</td>
<td>Step 12 Expected to be endorsed by CSS by the end of 2019</td>
<td>Publication expected by the end of 2020</td>
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<tr>
<td>DS504</td>
<td>Arrangements for Preparedness and Response for a Nuclear or Radiological Emergency (Revision of GS-G-2.1)</td>
<td>Step 5 Expected to move to step 7 by November 2020</td>
<td>End of 2021. Publication in 2022</td>
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<td>DS505</td>
<td>Source Monitoring, Environmental Monitoring and Individual Monitoring for Protection of the Public and the Environment (Revision of RS-G-1.8)</td>
<td>Step 5. Expected to move to step 7 by June 2020</td>
<td>Mid of 2021. Publication in 2022</td>
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Criteria to be considered

- Topics in new SGs to be addressed must be related to gaps identified regarding guidance on GSR Part 7 Requirements, as identified by MS
- The topics should be clearly identified and targeted. The work required is worth it
- Duplications and overlaps with existing/planned SGs should be avoided
- Feasibility of providing effective guidance and reaching consensus on the topic is reasonably ensured.
Criteria to be considered (Cont.)

- Regarding existing technical guidance (EPR Series) it should be taken into account:
  - They are valuable guidance, but focused on specific technical topics and operational guidance (usually narrower scope than SGs).
  - They are documents of the Secretariat, not based on consensus
  - As they are not safety standards, they are not directly in the mandate of EPRReSC
  - Sometimes they might serve as limited basis for development of SGs, but significant changes could be required.
Inputs and discussions of the eWG created at EPReSC8

• Inputs received in two steps. All the materials available at EPReSC site
• Inputs were valuable, reflecting sometimes quite different opinions
• Difficulty to coalesce into a common view
• With nuances, basically there were two views:
  – One supporting development of revision of GS-G-2.1 and GSG-2. No other SGs warranted at this stage. Strong reliance on EPR Series development
  – Another supporting the existence of some gaps in guidance that can’t be effectively addressed in these two revised SGs, so additional SGs were suggested
Proposal for new/revised SGs to be developed/Topics to be addressed

• In addition to revision of GS-G-2.1 (on going) and GSG-2 (supported based on the results of the survey, see Agenda item 6.2), some topics are suggested for possible new/revised SGs:

  Additional guidance on emergency workers and helpers.

  – Relevant aspects not covered by GSG-7, such as: concept of designated/non-designated emergency worker; clarification of the concept of helpers; prior identification/registration; required content of training depending on tasks; level of knowledge required; etc.

  – These aspects could be addressed in the revision of GSG-2 (which currently includes a chapter on this topic that was reproduced with some additions in GSR Part 7)
Proposal for new/revised SGs to be developed/Topics to be addressed (Cont.)

Specific SGs for different EPCs:

• Already one under development (DS469)
• Advantages:
  – Compile in one document guidance for specific facilities/activities.
  – Addressing specific aspects of EPR for EPCs
  – Better targeted audience/Easier implementation
• Cautions:
  – Need to avoid duplication with guidance contained in General SG
  – Need to prioritize
Proposal for new/revised SGs to be developed/Topics to be addressed (Cont.)

Specific SGs for different EPCs: Priorities

• SSG for EPC-I:
  – Detailed guidance on a number of requirements such as:
    Hazard assessment (i.e., specificities from different designs, security related aspects, ..)
    Specific guidance on optimization of protection strategy and aspects to be considered
    More detailed guidance on aspects related to onsite (requirement 7 and 8)
    More detailed guidance on a number of aspects related to urgent protective actions
    Guidance on waste management
  – Beneficial for embarking countries
Proposal for new/revised SGs to be developed/Topics to be addressed (Cont.)

Specific SGs for different EPCs: Priorities

• SSG for EPC-IV:
  – Activities and situations lacking of guidance, such as:
    Malevolent use of nuclear or radioactive materials
    materials out of regulatory control (i.e., abandoned
    sources)
    Detection of increase in radiation levels of unknown origin
    Identification of clinical symptoms due to radiation
    exposure
    Transnational emergencies not in Category V
  – Guidance to be provided on a number of GSR Part 7
    requirements particularly relevant to these situations
Specific SGs for different EPCs: Priorities

• SSG for EPC-V:
  – Recently is being identified as a relevant issue in different geographical areas
  – Relevant work done by concerned MS that could provide basis for this SSG
  – Second level of priority

• For EPC II and III, general guidance included in GS-G-2.1 should suffice
Proposal for new/revised SGs to be developed/Topics to be addressed (Cont.)

**General SG on Emergency Management System**

- To elaborate in detail on requirements 1 and 26

Need to avoid potential duplication with the guidance currently being developed on this

- To provide guidance on applicable requirements of GSR Part 2 (need to engage a TO from NSNI):

  To address aspects such as “leadership in EPR” and “EPR culture” that haven’t been addressed
Proposed new EPReSC Road Map

EPR Series documents published or already approved by PC:
- EPR - NPP OIL's
- EPR NPP assessment (revision of TECDOC 355)
- EPR Onsite NPP
- EPR Internal contamination
- EPR Medical Physics
- Revision of EPR Medical

EPR Series documents under development and revision (those already approved expected of being approved soon by PC are marked with *):
- EPR Protection Strategy (*)
- EPR RAD OILs
- EPR Combined emergencies (*)
- EPR Radiation Monitoring (Revision of TECDOC 1092) (*)
- EPR Medical Follow up (*)
- Revision of EPR First Responders (*)
- Revision of EPR Exercise
- Revision of EPR Method
- Revision of EPR Embarking
- EPR Dose Assessment
- Revised EPR Series Public Communication
Thank you!