Draft Safety Guide DS469: Preparedness and Response for an Emergency during the Transport of Radioactive Material

Step 7: Approval by the relevant review Committees for submission to Member States for Comments

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S. Whittingham, NSRW
Background - Document

- Revision of TS-G-1.2 (2002)
- DPP approved by EPReSC, TRANSSC, RASSC, NSGC June 2016
- DPP approved by CSS November 2016
Background - Experts

• Writing team of experts in transport safety & emergency preparedness and response
  – Open call for experts at EPReSC, TRANSSC, RASSC, NSGC, and CSS
  – Formed November 2016

• Experts from:
  – Canada (2)
  – France
  – India
  – Japan
  – Portugal
  – UK
  – USA
  – WNTI (2)
Background - CS

• 6 Consultancy Meetings held
  – June 2016
  – November 2016
  – February 2017
  – June 2017
  – September 2017
  – January 2018

• Events jointly implemented by IEC and Transport Safety Unit
Background – TM

• Technical Meeting held 16-20 October 2017
• 62 representatives
  – 43 Member States, 1 International Organization, 1 Nongovernmental Organization
• Conclusions:
  – Welcomed the current draft DS469 as a revision of TS-G-1.2.
  – The draft DS469 fully meets the intent of the DPP. No missing aspects were identified.
  – The meeting participants considered the current draft to be clearly written and comprehensive.
  – The meeting participants noted and welcomed that the current draft reflects past experiences and lessons learned from previous emergencies.
  – Many countries identified the complexity associated with the implementation of the necessary technical and operational arrangements in the preparedness stage and the need to cooperate with many different organizations. The document was considered as good guidance to start or continue the necessary discussions at national level.
  – The current draft accurately reflects a balance of preparing for emergencies during transport, while noting the requirements established in SSR-6 and the strong safety record of consignors and carriers worldwide.
  – The current draft provides guidance and recommendations for all Member States, while noting that the adoption and implementation of Member State plans and procedures may vary slightly.
The Technical Meeting used virtual reality (VR) technology to provide an additional method for attendees to review the suitability of the templates and checklists in DS469.

4 scenarios developed: Two road, rail, and maritime
Background – Guiding Principles

• Easy to understand, user friendly publication
• Focus on most probable emergencies while acknowledging and allowing for more severe emergencies
• Elaborate linkages between concepts whenever possible
  – E.g., External Radiation Levels (SSR-6) and Operational Intervention Levels (GSR Part 7)
• Provide more specific guidance on roles and responsibilities of consignors and carriers
• Provide examples, templates, and references whenever possible
  – 4 appendices and 3 annexes are > 50% of the length of the document
Scope

• Preparedness and response for a nuclear or radiological emergency during transport
• From the forwarding of the package to delivery at the consignee (including storage in transit)
• Excludes:
  – Events without any safety significance (e.g. a disabled conveyance in a stable condition, such as a broken down motor vehicle or a vehicle involved in a minor traffic accident)
  – Movement of radioactive material within the site boundaries of authorized facilities
Proposed Structure

• Section 1: Introduction
• Section 2: National Arrangements and Framework
• Section 3: Preparedness and Response Elements
• Section 4: Considerations for Modes of Transport
• Section 5: Interface with Nuclear Security
• Appendix I: Features of the Transport Regulations Relevant to EPR
• Appendix II: Considerations for Developing a National Capability
• Appendix III: Types of Emergencies during Transport
• Appendix IV: Postulated Events and Potential Consequences
• References
• Annex I: Example Event Notification Form
• Annex II: Sample Emergency Instructions
• Annex III: Template for the Carrier and Consignor Emergency Response Plan
## Comments Received by Committee

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RASSC Comment Resolution

- None -
Action Requested

Approval to move to SPESS Step 8 for Member State Comments
Thank you!