Joint Session of EPReSC and NSGC

13 June 2018
Agenda Item ES2.1

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

M. Breitinger, NS-IEC
S. Whittingham, NRSW
Background - Document

- Revision of TS-G-1.2 (2002)
- DS469 designated as an interface document in DPP
- DPP approved by EPRéSC, TRANSSC, RASSC, NSGC June 2016
- DPP approved by CSS November 2016
- Writing team formed in November 2016
- Experts from:
  - Canada (2)
  - France (2)
  - 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.
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
Nuclear Security Series (NSS) Publications on Transport Security

**Fundamentals**

NSS 20 – Objective and Essential Elements of a State’s Nuclear Security Regime

**Recommendations**

NSS 13 (Nuclear)
NSS 14 (Radioactive)
NSS 15 (Material Out of Regulatory Control)

**Implementing Guides**

NSS 26-G (Nuclear Mat. 2015)
revised NSS 9 RAM (2018)

**Technical Guidance and other publications**

NST 053 In drafting

Security of Nuclear and Other Radioactive Material in Transport (2019)

Guide to be published

Transport Security Exercises (2018)

Manual In drafting


Nuclear Security in the Uranium Extraction Industry
Chapter 5: Transport (2016)

All publications available free on the IAEA’s website and in many official languages
Safety standards in EPR relative to transport

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DS475 (GSG)

DS69 (SSG)
Safety standards for transport

IAEA Safety Standards
for protecting people and the environment

Governmental, Legal and Regulatory Framework for Safety

General Safety Requirements
No. GSR Part 1 (Rev. 1)

IAEA Safety Standards
for protecting people and the environment

Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards

General Safety Requirements Part 3
No. GSR Part 3

IAEA Safety Standards
for protecting people and the environment

Regulations for the Safe Transport of Radioactive Material
2012 Edition

Specific Safety Requirements
No. SSR-8

SSR 6 (2012)

Emergency response*

Advisory Material*

Radiation protection programmes

Management System

Compliance assurance

Schedules*

Guidance Documents
Interface

• Practical steps during drafting
  – NSNS review of DPP before submission to CC and Committees
  – NSNS involvement in consultancy meetings
  – NSNS complete review of the draft before Technical Meeting in Step 5
  – NSNS presentations on their publications at the Technical Meeting for context and MS awareness
# Comments Received by Committee

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Current Status – Step 7

- RASSC Approval: 6 June 2018
- TRANSSC Approval: 7 June 2018
- EPReSC Approval: 12 June 2018 *
- NSGC Clearance: 13-14 June 2018
Thank you!