42nd Meeting of the Radiation Safety Standards Committee (RASSC) and 43rd Meeting of the Waste Safety Standards Committee (WASSC)
13 – 14 June 2017

Agenda Item RW6.3
Draft Safety Guide on the Arrangements for the Termination of a Nuclear or Radiological Emergency (DS474)
Step 11

S. Nestoroska Madjunarova
Incident and Emergency Centre
Background

GSR Part 7 (2015)

- **Requirement 18**: Termination of an emergency (transition from an emergency exposure situation to an existing exposure situation or to a planned exposure situation)

GSR Part 3 (2011)

- **Requirement 46**: Transition from an emergency exposure situation to an existing exposure situation
• **Safety Guide DS474 is intended:**
  
  – To provide guidance and recommendations in relation to respective Safety Requirements contained in GSR Part 7 and GSR Part 3
  
  • To address the goal of emergency response (para. 3.2 of GSR Part 7):
    
    “To prepare, to the extent practicable, for the resumption of normal social and economic activity.”
History

• Document Preparation Profile (DPP) prepared
  1Q 2013

• DPP approved by review Committees
  3Q/4Q 2013

• DPP approved by Commission on Safety Standards
  November 2013

• Drafting
  2014 – 2015
Activities taken

• 6 Consultancy Meetings (2014 – 2015)
  • 3 – 7 February 2014
  • 30 June – 4 July 2014
  • 15 – 19 December 2014
  • 09 – 13 March 2015
  • 15 – 17 July 2015
  • 27 – 31 July 2015

• Technical Meeting
  • 16 – 20 November 2015, Vienna
History (cont.)

• First internal review
  1Q 2016

• First SSCs review
  2Q 2016 (Draft approved in July 2016)

• Soliciting comments from MSs and IOs
  July – November 2016

• Addressing comments
  4Q 2016 – 1Q 2017
Ad-hoc Working Group on DS474

• Established in November 2014
  – To increase the involvement of international organizations
  – Under the framework of Inter-Agency Committee on Radiological and Nuclear Emergencies (IACRNE)
  – Comprises of representatives of 7 international organizations

• Consultations with relevant international organizations on continuous basis
Internal consultations

• With colleagues working in relevant areas such as:
  – Remediation
  – Radiation protection
  – Radioactive waste management
  – …
President’s Summary:
– Recommendation 5: Developing international guidance for the transition phase

“During the Conference, it was recognized that there is a need for a holistic approach when implementing a protection strategy. Challenges and issues were raised regarding the lack of guidance for the termination of a nuclear or radiological emergency and the transitioning to recovery, including remediation.

I recommend that, to address this issue, the IAEA continue to develop guidance on the termination of a nuclear or radiological emergency and the transition to recovery, which should include guidance for adapting and lifting of protective actions.”
CSS Interests for the Sixth Term

...  

7) Finalize the development of the guidance on transition from emergency situations to recovery situations and the guidance on communication before, during and after an emergency situation.

...
Objective of DS474

To provide guidance and recommendations to Member States on developing arrangements at the preparedness stage to respond to a nuclear or radiological emergency in relation to the transition to either an existing exposure situation, or to a planned exposure situation, as appropriate, and the termination of the emergency

- Including objective and prerequisites for the termination of the emergency
Scope

- Any nuclear or radiological emergency irrespective of the cause
I. INTRODUCTION
   - BACKGROUND
   - OBJECTIVE
   - SCOPE
   - STRUCTURE

II. PHASES OF A NUCLEAR OR RADIOLOGICAL EMERGENCY
   - EMERGENCY RESPONSE PHASE
   - TRANSITION PHASE

III. PRIMARY OBJECTIVE AND PREREQUISITES
   - PRIMARY OBJECTIVE
   - GENERAL PREREQUISITES
   - SPECIFIC PREREQUISITES
   - TIMEFRAMES FOR THE TERMINATION
IV. ARRANGEMENTS FOR THE TRANSITION PHASE

- GENERAL
- PROTECTION OF THE PUBLIC
- CHARACTERIZATION OF THE EXPOSURE SITUATION
- MEDICAL FOLLOW-UP AND COUNSELLING
- PROTECTION OF EMERGENCY WORKERS AND HELPERS
- RADIOACTIVE WASTE MANAGEMENT
- CONSULTATION WITH THE PUBLIC AND OTHER INTERESTED PARTIES
- COMPENSATION FOR VICTIMS OF DAMAGE
- INFRASTRUCTURE

APPENDIX: CONSIDERATIONS FOR LIFTING PROTECTIVE ACTIONS AND OTHER RESPONSE ACTIONS

REFERENCES

ANNEX I: CASE STUDIES

ANNEX II: FACTORS FOR CONSIDERATION IN THE JUSTIFICATION AND OPTIMIZATION OF THE PROTECTION STRATEGY
MS and IO Comments

• Total of 275 comments received by:
  – 13 Member States
  – 3 International Organizations

• Resolutions:
  – 193 Comments were accepted (as proposed or with modification)
  – 82 Comments were rejected

• No any issue remained open at the time
## MS and IO Comments (cont.)

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Most comments rejected due to…

- Changes to wording in referred requirements of GSR Part 3 and GSR Part 7
- Address already defined terms in the IAEA Safety Standards Series and the Safety Glossary
- Proposed changes (primarily editorial) are not in line with SPRESS C Guidance for drafters and the Style Manual for IAEA publications
- Proposed wording to provide or expand guidance or recommendations to existing exposure situation, as being out of scope of DS474
- Being against consensus reached at the Technical Meeting in 2015
Accepted comments

• Did not introduce major changes in DS474 but:
  – Brought clarity to concepts of emergency response phase and transition phase and its consistent use throughout the document
  – Some of the guidance and prerequisites were revised for its appropriateness regarding the transition phase
Second review by SSCs

• Total of **33 comments** received by:
  – **7 Member States**

• Resolutions:
  – **22** Comments were accepted (as proposed or with modification)
  – **11** Comments were rejected

• Resolutions and updated draft posted in mid May on SSCs website
SSCs Comments

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<tr>
<td><strong>Total</strong></td>
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Summary of comments

• In general, most highlighting appropriateness in addressing the comments made during the 120 days commenting period
• Few editorial or terminology issues were raised and addressed as appropriate
• A few proposed wordings for improving the clarity and making addition of references
• No substantial change introduced
Technical Editorial Review

• Only editorial changes are introduced to improve:
  – Language and consistent use of terminology while following the format for IAEA Safety Standards Series publications
  – Consistency with other IAEA Safety Standards Series publications and other relevant publications
  – Formatting to comply with requirements of the Publishing Section and IAEA Style Manual
Expected action

• Approval for submission to CSS
Thank you!
Late comments

• Pakistan (NUSSC)

• Total of 3 comments as following:
  – Section 3 to address nuclear security measures as relevant for the termination
  – Introducing prioritization in lifting protective measures
  – Criteria to estimate the timeframe for termination of the emergency based on hazard assessment
Late comments (cont.)

• Section 3 to address nuclear security measures as relevant for the termination
  – *Done in para. 3.19 (b) in Section 3*

• Introducing prioritization in lifting protective measures
  – *Done in sub-section on Adaptation and lifting of the protective actions in Section 4*

• Criteria to estimate the timeframe for termination of the emergency based on hazard assessment
  – *Done in sub-section on Hazard Assessment in Section 4 taking into account prerequisites in Section 3*