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Document Preparation Profile (DPP)
Version 5 dated 15 November 2018

1. IDENTIFICATION

Document Category: Safety Guide

Working ID: DS515

Proposed Title: Compliance Assurance for the Safe Transport of Radioactive Material

Proposed Action: Revision of Safety Guide No. TS-G-1.5, Compliance Assurance for the Safe Transport of Radioactive Material, which was published in 2009

Review Committee(s) or Group: TRANSSC, EPreSC, NSGC

Technical Officer(s): Eric H. Reber

2. BACKGROUND

Safety Guide No. TS-G-1.5, Compliance Assurance for the Safe Transport of Radioactive Material, was published in 2009. The objective of TS-G-1.5 is to assist competent authorities in the development and maintenance of compliance assurance programmes for the transport of radioactive material, and to assist applicants, licensees and organizations in their interactions with competent authorities. Recommendations are provided on the responsibilities of users of the transport regulations and competent authorities relating to compliance assurance. In order to increase cooperation between competent authorities and to promote the uniform application of international regulations and recommendations, it is desirable to adopt a common approach to regulatory activities. TS-G-1.5 is intended to assist in implementing such a uniform application by recommending most of the actions that should be included in the programmes of competent authorities for ensuring compliance with the Transport Regulations.

Since the publication of TS-G-1.5, the two publications in the Safety Requirements category that it primarily supports have been revised twice in the case of GS-R-1, and three times in case of TS-R-1. Revision of TS-G-1.5 is proposed to take account of revisions to several relevant publications that inform its content, and issues that have impacted the areas of its purview since its publication in 2009, including:

- revisions of the publications in the Safety Requirements category that it supports;
- revisions of other publications cited as references, e.g., Safety Standards Series No. GS-R-2, GS-R-3, TS-G-1.1 (Rev. 1), TS-G-1.3, and TS-G-1.4; IAEA's National Competent Authorities Responsible for Approvals and Authorizations in Respect of the Transport of Radioactive Material; IAEA's Training Course Series No. 1, Safe Transport of Radioactive Material; and IAEA's International Nuclear Verification Series No. 1 (Revised), Safeguards Techniques and Equipment;
- technological changes, and changes to the nature and scope of the transport of radioactive material;
- operational experience with the use of TS-G-1.5; and
- consideration of the safety/security interface.

This proposed revision of TS-G-1.5 is part of a plan (approved by TRANSSC) to revise all safety guides that support the Regulations for the Safe Transport of Radioactive Material, the most recent revision of which will be published in 2018.

3. JUSTIFICATION FOR THE PRODUCTION OF THE DOCUMENT

Revision of TS-G-1.5 is overdue in that since its publication, the two publications in the Safety Requirements category that it primarily supports have been revised a total of five times. Due to a lack of resources and competing priorities, it has not been possible until now to revise this publication. Users of this publication will benefit from an updated version of the publication that is based on current safety standards, and takes account of recent operating experience, current technology, and the nature and scope of the transport of radioactive materials.

4. OBJECTIVE

The objective of the proposed revision of TS-G-1.5 is to assist competent authorities in the development and maintenance of compliance assurance programmes for the transport of radioactive material, and to assist applicants, licensees and organizations in their interactions with competent authorities. In order to increase cooperation between competent authorities and to promote the uniform application of international regulations and recommendations, it is desirable to adopt a common approach to regulatory activities. This revision of TS-G-1.5 is intended to assist in implementing such a uniform application by recommending most of the actions that should be included in the programmes of competent authorities for ensuring compliance with the Transport Regulations.

This safety guide is intended to be used by competent authorities that are establishing or further developing programmes to ensure compliance with the Transport Regulations. The recommendations provided will also be useful to competent authorities with established programmes that are seeking greater harmony internationally in the implementation of the Transport Regulations. Additionally, the safety guide will assist users of the Transport Regulations in their interactions with competent authorities.

5. SCOPE

The proposed safety guide will address radiation safety aspects of the transport of radioactive material; that is, the subjects that are covered by the Transport Regulations.

Measures for managing safety–security interfaces will be addressed in the proposed safety guide as necessary. Nuclear security issues, such as physical protection and nuclear material accounting and control will be mentioned in the proposed safety guide where they need to be taken into account when considering regulatory programmes for ensuring the safe transport of radioactive material, but reference will be made to the Nuclear Security Series for guidance on these topics.

6. PLACE IN THE OVERALL STRUCTURE OF THE RELEVANT SERIES AND INTERFACES WITH EXISTING AND/OR PLANNED PUBLICATIONS

The proposed publication will be a specific safety guide in the group of safety standards on the safe transport of radioactive material. This safety guide will primarily provide guidance on implementing the requirements in General Safety Requirements No. GSR Part 1 (Rev. 1), Governmental, Legal and Regulatory Framework for Safety, and Safety Standards Series No. SSR-6, Regulations for the Safe Transport of Radioactive Material, for ensuring compliance with regulatory requirements on the transport of radioactive material.

The proposed safety guide will provide specific recommendations that are relevant to assuring compliance with the Transport Regulations; these recommendations will not conflict with recommendations provided in Safety Standards Series No. GSG-12, Organization, Management and Staffing of the Regulatory Body for Safety, or Safety Standards Series No. GSG-13, Functions and Processes of the Regulatory Body for Safety.

A section of this publication will address the safety security interface. Appropriate references will be made to publications in the Nuclear Security Series.

The drafting process for this publication will be managed by RIT/NSRW. Regarding the section on the safety/security interface, the Nuclear Security of Materials and Facilities Section will be consulted.

Historically, SSR-6, Regulations for the Safety Transport of Radioactive Material, and the IAEA Safety Guides that support it have not been co-sponsored by other international organizations. Regarding interaction with international organizations, ICAO, IMO and the UNECE are members of TRANSSC and as such are invited to participate in discussions and make comments on documents that are developed by the IAEA (such as TS-G-1.5).

It is expected that the current version of the following publications will be referenced in this publication:

- INTERNATIONAL ATOMIC ENERGY AGENCY, Regulations for the Safe Transport of Radioactive Material, 2018 Edition, IAEA Safety Standards Series No. SSR-6, IAEA, Vienna (2018).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Leadership and Management for Safety, IAEA Safety Standards Series No. GSR Part 2, IAEA, Vienna (2016).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Safety Assessment for Facilities and Activities, IAEA Safety Standard Series No. GSR Part 4 (Rev. 1), IAEA, Vienna (2016).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Legal and Governmental Infrastructure for Nuclear, Radiation, Radioactive Waste and Transport Safety, IAEA Safety Standards Series No. GSR Part 1 (Rev. 1), IAEA, Vienna (2016).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Application of the Management System for Facilities and Activities, IAEA Safety Standards Series No. GS-G-3.1, IAEA, Vienna (2006). **[NB: This reference may be revised if DS513 is published.]**
- INTERNATIONAL ATOMIC ENERGY AGENCY, Organization, Management and Staffing of the Regulatory Body for Safety, IAEA Safety Standards Series No. GSG-12, IAEA, Vienna (2018).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Functions and Processes of the Regulatory Body for Safety, IAEA Safety Standards Series No. GSG-13, IAEA, Vienna (2018).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Preparedness and Response for a Nuclear or Radiological Emergency, IAEA Safety Standards Series No. GSR Part 7, IAEA, Vienna (2015).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material, IAEA Safety Standards Series No. TS-G-1.2 (ST-3), IAEA, Vienna (2002) (under revision as DS469).
- INTERNATIONAL ATOMIC ENERGY AGENCY, National Competent Authorities Responsible for Approvals and Authorizations in Respect of the Transport of Radioactive Material, IAEA, Vienna (2008), <http://www-ns.iaea.org/downloads/rw/radiation-safety/competent-authoritieslist2008.pdf>
- INTERNATIONAL CIVIL AVIATION ORGANIZATION, Technical Instructions for the Safe Transport of Dangerous Goods by Air, ICAO, Montreal (2016).
- INTERNATIONAL MARITIME ORGANIZATION, International Maritime Dangerous Goods Code (IMDG Code), IMO, London (2016).
- UNIVERSAL POSTAL UNION, Universal Postal Convention of Rio de Janeiro, UPU, Berne (1979).
- UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE, European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) and Protocol of Signature, UNECE, Geneva (1957).
- CENTRAL OFFICE FOR INTERNATIONAL TRANSPORT BY RAIL, Convention relative aux transports internationaux ferroviaires (COTIF), OCTI, Berne (1980).
- CENTRAL COMMISSION FOR THE NAVIGATION OF THE RHINE, Règlement pour le transport de matières dangereuses sur le Rhin (ADNR), CCDR, Strasbourg (2007).
- MERCOSUR/MERCOSUL, Acuerdo sobre Transporte de Mercancías Peligrosas en el Mercosur/Acordo sobre Transporte de Mercadorias Perigosas no Mercosul, Argentina, Brasil, Paraguay y Uruguay (1994).

- INTERNATIONAL ATOMIC ENERGY AGENCY, Safeguards Techniques and Equipment: 2011 Edition, International Nuclear Verification Series No. 1 (Rev. 2), IAEA, Vienna (2011).
- INTERNATIONAL ATOMIC ENERGY AGENCY, The Convention on the Physical Protection of Nuclear Material, INFCIRC/274/Rev.1/Mod.1, IAEA, Vienna (2016); The Physical Protection of Nuclear Material and Nuclear Facilities, INFCIRC/225/Rev.5, IAEA, Vienna (2011).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Convention on Early Notification of a Nuclear Accident and Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency, Legal Series No. 14, IAEA, Vienna (1987).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (2012 Edition), IAEA Safety Standards Series No. SSG-26, IAEA, Vienna (2014).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Radiation Protection Programmes for the Safe Transport of Radioactive Material, IAEA Safety Standards Series No. TS-G-1.3, IAEA, Vienna (2007).
- INTERNATIONAL ATOMIC ENERGY AGENCY, The Management System for the Safe Transport of Radioactive Material, IAEA Safety Standards Series No. TS-G-1.4, IAEA, Vienna (2008).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Safe Transport of Radioactive Material, Fourth Edition, Training Course Series No. 1, IAEA, Vienna (2006).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Security in the Transport of Radioactive Material, IAEA Nuclear Security Series No. 9, IAEA, Vienna (2008). **[NB: This reference will change once NST044, NSS No. 9 Rev. 1 is published (expected end of 2018)]**
- INTERNATIONAL ATOMIC ENERGY AGENCY, Security of Nuclear Material in Transport, IAEA Nuclear Security Series No. 26-G, IAEA, Vienna (2015).

7. OVERVIEW

The outline of the publication will be similar to that of the publication that is being revised, with the inclusion of a section on the safety/security interface.

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REFERENCES

NOTE ON ANNEXES

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ANNEX VIII: EXAMPLE/MODEL OF A CHECKLIST FOR INSPECTING THE MANUFACTURING

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CONTRIBUTORS TO DRAFTING AND REVIEW

BODIES FOR THE ENDORSEMENT OF IAEA SAFETY STANDARDS

8. PRODUCTION SCHEDULE: Provisional schedule for preparation of the document, outlining realistic expected dates for each step (*fill the column corresponding to your proposed document and delete the other columns*):

	A*	B*	C*
STEP 1: Preparing a DPP	DONE	DONE	DONE
STEP 2: Approval of DPP by the Coordination Committee	Q2, 2018		
STEP 3: Approval of DPP by the relevant review Committees	Q4, 2018		
STEP 4: Approval of DPP by the CSS	Q2, 2019		
STEP 5: Preparing the draft Indicate as to whether a TM is expected to be organized for the preparation of the draft	Q3, 2018 – Q2, 2019		
STEP 6: Approval of draft by the Coordination Committee	Q3, 2019		
STEP 7: Approval by the relevant review Committees for submission to Member States for comments	Q4, 2019		
STEP 8: Soliciting comments by Member States	Q1, 2020		
STEP 9: Addressing comments by Member States	Q1, 2020		
STEP 10: Approval of the revised draft by the Coordination Committee Review in NSOC-SGDS (Technical Editorial review)	Q2, 2020		
STEP 11: Approval by the relevant review Committees	Q4, 2020		
STEP 12: - Submission to the CSS - Submission in parallel and approval by the Publications Committee - MTCD Editing - Endorsement of the edited version by the CSS	Q2, 2021		
STEP 13: Establishment by the Publications Committee and/or Board of Governors (for SF and SR only)	N/A		
STEP 14: Target publication date	Q4, 2021		

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- *Column A for Safety Fundamentals, Safety Requirements and Safety Guides.*
- *Column B for Nuclear Security Series publications*
- *Column C for TECDOCs, safety reports and other publications*

9. RESOURCES

Estimated resources involved by the Secretariat (person-weeks) and the Member States (number and type of meetings)

Three one-week consultancy meetings

Two six-week home based assignments

Secretariat: 12 person-weeks