

LONG TERM STRUCTURE OF THE IAEA SAFETY STANDARDS AND CURRENT STATUS

October 2009

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<http://www-ns.iaea.org/downloads/standards/status.pdf>

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1. Recent Publications

Safety standards published in 2006: SF-1, GS-R-3, GS-G-3.1, RS-G-1.10, WS-G-6.1, WS-R-5, WS-G-5.1, NS-G-2.11, NS-G-4.1, NS-G-4.2, WS-R-4

Safety standards published in 2007: WS-G-3.1, GS-G-2.1, TS-G-1.3

Safety standards published in 2008: GS-G-3.2, GS-G-3.3, GS-G-3.4, NS-G-2.14, NS-G-4.3, NS-G-4.4, NS-G-4.5, NS-R-5, TS-G-1.1, TS-G-1.4, WS-G-5.2

Safety standards published in 2009: NS-G-2.12, GSR Part 4, GSR Part 5, TS-R-1 2009 edition, NS-G-2.13, TS-G-1.5, NS-G-2.15

2. Useful Hyperlinks

General information on the IAEA Safety Standards is available at:

<http://www-ns.iaea.org/standards/default.htm>

The 2007 Edition of the IAEA Safety Glossary is available in Arabic, Chinese, English, French, Russian and Spanish at:

<http://www-ns.iaea.org/standards/safety-glossary.htm>

Feedback on the application of safety standards at:

<http://www-ns.iaea.org/standards/feedback.htm>

3. Overall status of the safety standards series

Of 129 planned Safety Standards,

- 106 are established of which 96 are published
- 40 drafts are in the development process (15 to revise 17 published safety standards)
- 11 draft DPPs are approved by the Coordination Committee of which 5 to revise 6 published Safety Standards

4. Application to facilities and activities

For each document in the long term structure of safety standards, a table is provided that indicates to which types of facilities and activities the standard applies. The green boxes indicate the application:

- green NPPs means applicable to nuclear power plants,
- green RRs means applicable to research reactors,
- green FCFs means applicable to fuel cycle facilities,
- green MM means applicable to mining/milling activities,
- green RS means applicable to use of radiation sources, and
- green TR means applicable to the transport of radioactive material

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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5. Hierarchy

The IAEA safety standards reflect an international consensus on what constitutes a high level of safety for protecting people and the environment from harmful effects of ionizing radiation. They are issued in the IAEA Safety Standards Series, which has three categories (see Fig. 1):

Safety Fundamentals

The Safety Fundamentals SF-1 presents the fundamental safety objective and principles of protection and safety and provides the basis for the safety requirements.

Safety Requirements

An integrated and consistent set of Safety Requirements establish the requirements that must be met to ensure the protection of people and the environment, both now and in the future. The requirements are governed by the objective and principles of the Safety Fundamentals. If the requirements are not met, measures must be taken to reach or restore the required level of safety. The format and style of the requirements facilitate their use for the establishment, in a harmonized manner, of a national regulatory framework. The safety requirements use ‘shall’ statements with statements of associated conditions to be met. Many requirements are not addressed to a specific party, the implication being that the appropriate parties are responsible for fulfilling them.

Safety Guides

Safety Guides provide recommendations and guidance on how to comply with the safety requirements, indicating an international consensus that it is necessary to take the measures recommended (or equivalent alternative measures). The Safety Guides present international good practices, and increasingly they reflect best practices, to help users striving to achieve high levels of safety. The recommendations provided in Safety Guides are expressed as ‘should’ statements.

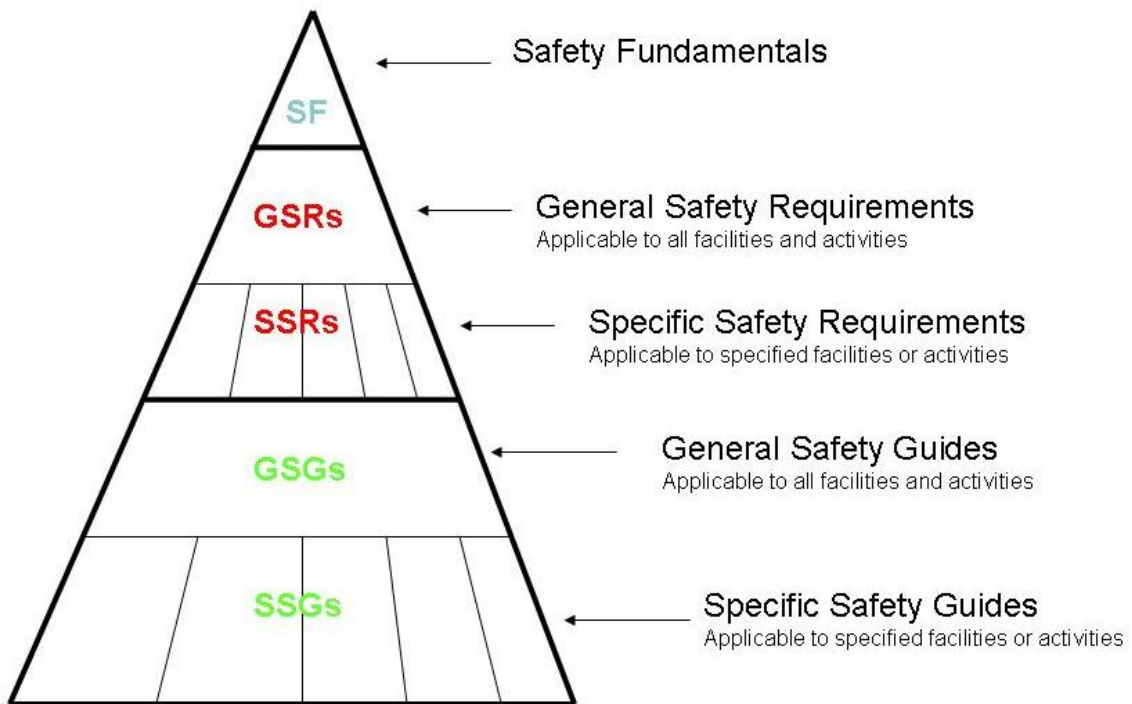
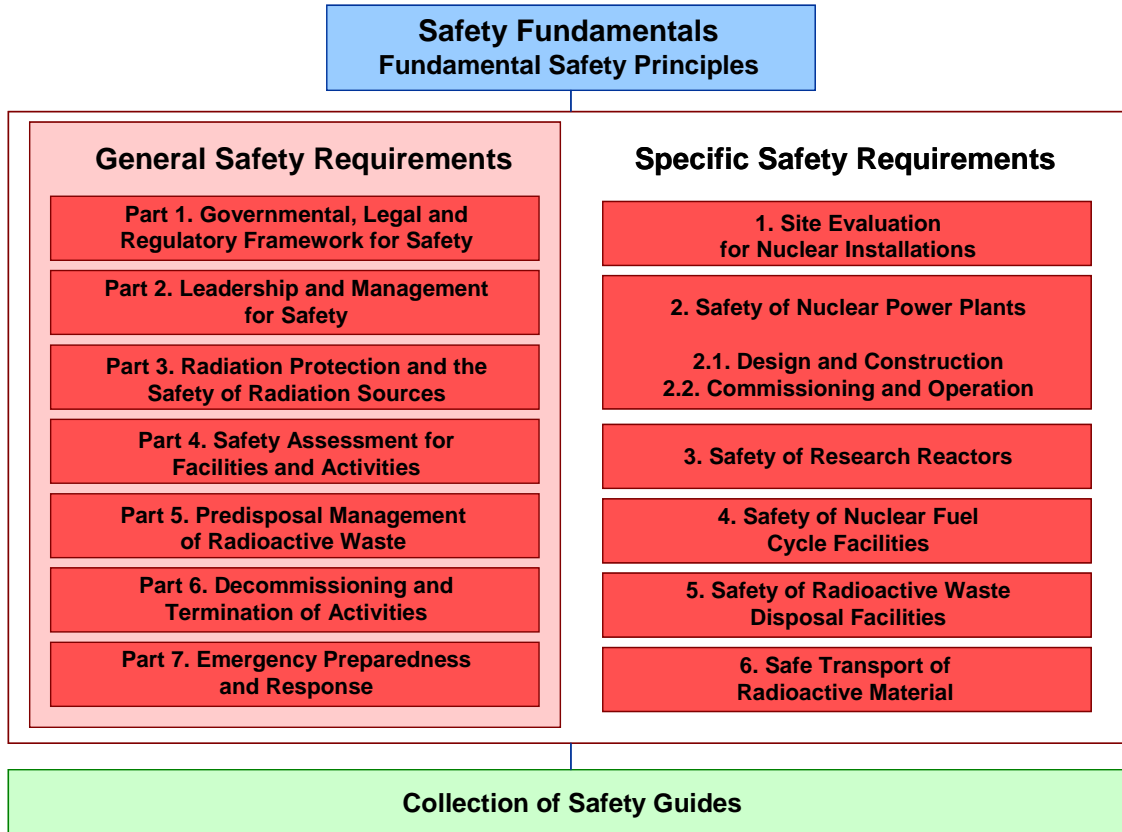


Fig. 1: Safety Standards Categories

6. Structure

The long-term set of Safety Standards includes a unified Safety Fundamentals (SF1), a General Safety Requirements (GSR) in seven parts applicable to all facilities and activities with a graded approach, complemented by a set of six facilities and activities Specific Safety Requirements (SSRs) The Safety Requirements are implemented through a set of general and specific safety guides.



The following list provides you with the long term set of Safety Standards as well as the status of the current corresponding set of published safety standards and drafts in preparation for the transition to the long term structure.

7. Status of development

Throughout this report the first column provides the list of established IAEA Safety Standards (Safety Fundamentals and Safety Requirements are established when approved by the BoG and Safety Guides are established by the DG when approved by the Publication Committee). The second column gives the working identification number (DS ...) of standards being developed or revised and links to the corresponding dpp. **Bold titles** indicate standards issued, or to be issued, under the authority of the Board of Governors, others are issued under the authority of the Director General. The third column provides the development status. The last column provides the list of Committees; the first Committee listed has the lead in the preparation and review of that particular standard.

Legend:

(Blank)	No revision planned
□□□□□□	New standard or revision planned
▣□□□□□	DPP in preparation or awaiting approval
■□□□□□	Document being drafted
■▣□□□□	Awaiting approval of Committee(s) for submission to Member States
■▣□□□□	Approved by Committee(s) for submission to Member States
■▣▣□□□	Awaiting comments from MS/incorporating comments from MS
■▣▣□□□	Awaiting approval by Committee(s) for submission to the Commission
■▣▣▣□□	Approved by Committee(s) for submission to the Commission
■▣▣▣□□	Endorsed by the Commission
■▣▣▣▣□	Submitted to B of G/Publications Committee
■▣▣▣▣□	Established Safety Standards Approved by B of G/Publications Committee
■▣▣▣▣▣	In production/in translation
	Published in

8. Safety Fundamentals

Safety Fundamentals

SF-1: Fundamental Safety Principles

Published in [Arabic](#) [Chinese](#) [English](#) [French](#) [Russian](#) and [Spanish](#)

Co-sponsorship: EC, Euratom, FAO, ILO, IMO, OECD/NEA, PAHO, UNEP, WHO

Ex. **DS298**, Supersedes Safety series Nos 110, 111-F and 120

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

9. General Safety Requirements

GSR Part 1: Governmental, Legal and Regulatory Framework for Safety

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

Established IAEA Safety Standards	Safety Standards in Preparation Working ID - Title	Remarks / Status / Technical Officer/ Expected date of publication	Committee
GS-R-1 Legal and Governmental Infrastructure for Nuclear, Radiation, Radioactive Waste and Transport Safety (2000) Ex DS180 Published in Arabic , English , Chinese , French , Russian , Spanish Supersedes Safety Series Nos. 50-C-G (Rev. 1) and 111-S-1	DS415 Governmental, Legal and Regulatory Framework for Safety dpp	Approved by the Committees for submission to the Commission ■■■□□□/ Caruso and Suman/.	<hr/> NUSSC <hr/> RASSC <hr/> WASSC <hr/> TRANSSC

GSR Part 2: Leadership and Management for Safety

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

GS-R-3 The Management System for Facilities and Activities (2006) Ex DS338 Published in English (Supersedes Safety Series 50-C-Q)			
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GSR Part 3: Radiation Protection and Safety of Radiation Sources

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

SS115 International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources (1996) Published in Arabic , Chinese , English , French , Russian , Spanish Co-sponsorship: FAO, ILO, OECD/NEA, PAHO, WHO Supersedes Safety Series No. 9, 1982 Edition	DS379 Revision of the International BSS dpp	DPP approved by the CSS, November 2006. Document being drafted. Expected to be submitted to the Committees for MS consultation IIQ 2010 2009■■■■□□/ Amaral /	RASSC NUSSC WASSC TRANSSC
WS-R-3 Remediation of Areas Contaminated by Past Activities and Accidents (2003) Ex DS162 Published in English			

GSR Part 4: Safety Assessment for Facilities and Activities (2009)Published in [English](#)Ex. **DS348**

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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GSR Part 5: Predisposal Management of Radioactive Waste (2009)Published in [English](#)Ex. **DS353**, supersedes WS-R-2

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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GSR Part 6: Decommissioning and Termination of Activities

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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<p>WS-R-5 Decommissioning of Facilities Using Radioactive Material (2006) Ex DS333 Published in English Supersedes the decommissioning part of WS-R-2 on Predisposal Management of Radioactive Waste, including Decommissioning (2000)</p>			
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GSR Part 7: Emergency Preparedness and Response

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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<p>GS-R-2 Preparedness and Response for a Nuclear or Radiological Emergency (2002) Ex DS43 Published in Arabic, English, Chinese, French, Russian, Spanish Co-sponsorship: FAO, OCHA, OECD/NEA, ILO, PAHO, WHO</p>			
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10. Specific Safety Requirements

SSR 1: Site Evaluation for Nuclear Installations

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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NS-R-3 Site Evaluation for Nuclear Installations (2003) Ex DS305 Published in English Supersedes Safety Series Nos. 50-C-S (Rev. 1) & S9			
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SSR 2.1: Design and Construction of Nuclear Power Plants

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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NS-R-1 Safety of Nuclear Power Plants: Design (2000) Ex DS181 Published in Chinese , English , French , Russian , Spanish Supersedes Safety Series Nos. 50-C-D (Rev. 1) and D1	DS414 Safety of Nuclear Power Plants: Design dpp	Awaiting comments from Member States (comments due by 22 January 2010) ■■■□□□/ Gasparini/.	NUSSC RASSC WASSC TRANSSC
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SSR 2.2: Commissioning and Operation of Nuclear Power Plants

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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NS-R-2 Safety of Nuclear Power Plants: Operation (2000) Ex DS179 Published in Chinese English , French , Russian , Spanish Supersedes Safety Series No. 50-C-O (Rev. 1)	DS413 Safety of Nuclear Power Plants: Commissioning and Operation dpp	Awaiting approval by the Committees for submission to the CSS ■■■■□□□/ Kearney/.	NUSSC RASSC WASSC TRANSSC
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SSR 3: Safety of Research Reactors

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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NS-R-4 Safety of Research Reactors (2005) Ex DS272 Published in English Supersedes Safety Series Nos. 35-S1 and 35-S2			
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SSR 4: Safety of Nuclear Fuel Cycle Facilities

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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NS-R-5 Safety of Nuclear Fuel Cycle Facilities (2008) Ex DS316 Published in English			
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SSR 5: Safety of Radioactive Waste Disposal Facilities

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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<p>WS-R-1 Near Surface Disposal of Radioactive Waste (1999) Published in Arabic, Chinese, English, French, Russian, Spanish</p> <p>WS-R-4 Geological Disposal of Radioactive Waste (2006)</p> <p>Ex DS154</p> <p>Published in English</p> <p>Co-sponsorship: OECD/NEA.</p>	<p>DS354 Disposal of Radioactive Waste (To supersede and combine WS-R-4 and WS-R-1)</p> <p>dpp</p>	<p>Approved by the Committees for submission to the Commission.</p> <p>■■■□□□/ Metcalf /.</p>	<p>WASSC</p>
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SSR 6: Regulations for the Safety Transport of Radioactive Material

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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<p>TS-R-1 Regulations for the Safe Transport of Radioactive Material (2009 Edition)</p> <p>Ex DS345</p> <p>Published in English</p>	<p>DS437</p>	<p>Project</p>	
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11. General Safety Guides

1. Establishing a National Safety Infrastructure

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

Finalization of DS424 and incorporation, after the revision of the BSS is completed of RS-G-1.4 Building Competence in Radiation Protection and the Safe Use of Radiation Sources (2001)

	DS424 Establishing a Safety Infrastructure for a National Nuclear Power Programme dpp	Awaiting comments from MS (comments due by 7 December 2009) ■■■□□□□/ Jones/	All Committees
RS-G-1.4 Building Competence in Radiation Protection and the Safe Use of Radiation Sources (2001) Ex DS73 Published in Arabic , Chinese , English , French , Russian Co-sponsorship: Int. Labour Office, PAHO, WHO			

2. Regulatory Control of Facilities and Activities

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

Modular revision of

- GS-G-1.1 Organization and staffing of the regulatory body for nuclear facility (2002) that will include 'Management systems for regulatory bodies' (DS113) as well as guidance on 'self assessment'. This should address nuclear facilities and activities as well as the control of radiation facilities and radiation sources.
- GS-G-1.2 Review and assessment of nuclear facilities by the regulatory body (2002),
- GS-G-1.3 Regulatory inspection of nuclear facilities and enforcement by the regulatory body (2002)
- GS-G-1.4 Documentation for use in regulating nuclear facilities (2002)
- GS-G-1.5 Regulatory control of radiation sources (2004) incorporating the TECDOCs on 'Authorization' and 'Inspection'. This will also cover the licensing, authorization, notification process for radiation sources and activities.
- the regulatory control part of WS-G-2.3 Regulatory control of radioactive discharges to the environment (2000)
- and WS-G-5.1 Release of sites from regulatory control upon termination of practices (2006)

The revised safety guide will also cover the licensing process for nuclear installations DS416 after its finalization.

The guide will also address the content of DS429 on external expert support on safety issues.

GS-G-1.1 Organization and Staffing of the Regulatory Body for Nuclear Facilities (2002) Ex DS247 Published in English , Chinese , French , Russian , Spanish Supersedes Safety Series No. 50-SG-G1			
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GS-G-1.2 Review and Assessment of Nuclear Facilities by the Regulatory Body (2002) Ex DS248 Published in English , Chinese , French , Russian Supersedes Safety Series No. 50-SG-G3			
GS-G-1.3 Regulatory Inspection of Nuclear Facilities and Enforcement by the Regulatory Body (2002) Ex DS289 Published in English , Chinese , French , Russian , Spanish Supersedes Safety Series No. 50-SG-G4 (Rev. 1)			
GS-G-1.4 Documentation for Use in Regulating Nuclear Facilities (2002) Ex DS290 Published in English , Chinese , French , Russian , Spanish Supersedes Safety Series Nos. 50-SG-G8 and 50-SG-G9	DS416 Licensing Process for Nuclear Installations dpp To compile parts of GS-G-1.2, GS-G-1.4 and the appendix of GS-R-1	Approved by the Committees for submission to the Commission ■■■□□□ / Calpena /	NUSSC RASSC WASSC TRANSSC
GS-G-1.5 Regulatory Control of Radiation Sources (2004) Ex DS67 Published in English Co-sponsorship: FAO, ILO, PAHO & WHO			
WS-G-2.3 Regulatory Control of Radioactive Discharges to the Environment (2000) Ex DS25 Published in Arabic , Chinese , English , French , Russian Spanish Supersedes Safety Series No. 77			
WS-G-5.1 Release of Sites from Regulatory Control upon the Termination of Practices (2006) Ex DS332 Published in English			
	- DS429 : External expert support on safety issues, new safety guide, G. Philip, all Committees	Project	

3. Categorization of Radioactive Sources

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

Revision; if necessary, of RS-G-1.9 Categorization of Radioactive Sources (2005)

RS-G-1.9 Categorization of Radioactive Sources (2005) Ex DS343 Published in Arabic , English , Chinese , Russian			
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4. Application of the Concepts of Exclusion, Exemption and Clearance

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

General philosophy and table in RS-G-1.7 (2004) should be incorporated into the BSS. RS-G-1.7. remains

RS-G-1.7 Application of the Concepts of Exclusion, Exemption and Clearance (2004) Ex DS161 Published in Chinese English , Russian , Spanish			
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5. Protection of the Public

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

Should cover general guidance on optimization and on the use of dose constraints

Should include the part of WS-G-2.3 -Regulatory control of radioactive discharges to the environment (2000)- not included in the regulatory process safety guide (see number 2)

It should also include DS421 on Protection of the Public against Exposure to Natural Sources of Radiation, which is the combination of the initially proposed DS400 and DS352. The scope in the long term may be specific to radon in dwelling and building material.

<p>WS-G-2.3 Regulatory Control of Radioactive Discharges to the Environment (2000) Ex DS25 Published in Arabic, Chinese, English, French, Russian Spanish Supersedes Safety Series No. 77</p>			
	<p>DS421 Protection of the Public against Exposure to Natural Sources of Radiation including NORM dpp</p>	<p>DPP approved by the CSS, November 2007 Draft in preparation ■□□□□□/ Edge and Boal/.</p>	<p>WASSC RASSC</p>
	<p>DS432: Generic Criteria for the Radiation Protection of the Public and the Environment, T. Boal, RASSC, WASSC, NUSSC, TRANSSC</p>	<p>project</p>	

6. Application of the Management System for Facilities and Activities

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

Revision of GS-G-3.1, as necessary and incorporation at a later stage of GS-G-3.2 on Management System for Technical Services (2008), GS-G-3.3 on Management System for the Processing, Handling and Storage of Radioactive Waste (2008) and of TS-G-1.4 on The Management System for the Safe Transport of Radioactive Material (2008), all recently published.

<p>GS-G-3.1 Application of the Management System for Facilities and Activities. (2006) Ex DS339 Published in English (Supersedes Safety Series 50-SG-Q1 to Q7)</p>			
<p>GS-G-3.2 The Management System for Technical Services in Radiation Safety (2008) Ex DS315 Published in English, French</p>			
<p>GS-G-3.3 The Management System for the Processing, Handling and Storage of Radioactive Waste (2008) Ex DS336 Published in English</p>			
<p>TS-G-1.4 The Management System for the Safe Transport of Radioactive Material (2008) Ex DS326 Supersedes Safety Series No.113 Published in English</p>			

7. Occupational Radiation Protection in Facilities and Activities

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

To combine and supersede Safety Guides – RS-G-1.1 Occupational Radiation Protection (1999), RS-G-1.2 Assessment of Occupational Exposure Due to Intakes of Radionuclides (1999), RS-G-1.3 Assessment of Occupational Exposure Due to External Sources of Radiation (1999), RS-G-1.6 Occupational Radiation Protection in the Mining and Processing of Raw Materials (2004) and GS-G-3.2 The Management System for Technical Services in Radiation Safety (2008)

<p>RS-G-1.1 Occupational Radiation Protection (1999) Ex DS69 Published in Arabic, Chinese, English, French, Russian, Spanish Co-sponsorship: Int. Labour Office</p>			
<p>RS-G-1.2 Assessment of Occupational Exposure due to Intakes of Radionuclides (1999) Ex DS85 Published in Arabic, Chinese, English, French, Russian, Spanish Co-sponsorship: Int. Labour Office</p>			
<p>RS-G-1.3 Assessment of Occupational Exposure due to External Sources of Radiation (1999) Ex DS12 Published in Arabic, Chinese, English, French, Russian, Spanish Co-sponsorship: Int. Labour Office</p>			
<p>RS-G-1.6 Occupational Radiation Protection in the Mining and Processing of Raw Materials (2004) Ex DS17 Published in English Co-sponsorship: ILO - Supersedes Safety Series No. 26</p>			
<p>GS-G-3.2 The Management System for Technical Services in Radiation Safety (2008) Ex DS315 Published in English, French</p>			

8. Integrated Safety Assessment and Decision Making

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

New document. It will include several proposals on safety assessment as well as WS-G-5.2 Safety Assessment for the Decommissioning of Facilities Using Radioactive Material (2008) and the amended content of “old” DS365, according to the agreement of 25 NUSSC.

	<p>DS365 Risk-Informed Decision Making dpp</p>	<p>DPP approved by the CSS, June 2006. Document being for the moment developed as a TECDOC ■□□□□□/ EI Shanawany /.</p>	<p>NUSSC</p>
<p>WS-G-5.2 Safety Assessment for the Decommissioning of Facilities Using Radioactive Material (2008) Ex DS376 Published in English</p>			

9. Environmental and Source Monitoring for Purposes of Radiation Protection

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

To revise RS-G-1.8 Environmental and Source Monitoring for Purposes of Radiation Protection (2005)

RS-G-1.8 Environmental and Sources Monitoring for Purposes of Radiation Protection (2005) Ex DS62 Published in English			
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10. Criticality Safety for Nuclear Facilities and Activities

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

DS407 to be submitted to the Safety Standards Committees in 2009 for MS consultation

	DS407 Criticality Safety dpp	DPP approved by the CSS, November 2007 Expected to be submitted to the Committees for MS consultation II 2010 ■□□□□□ / Winfield /	NUSSC RASSC WASSC TRANSSC
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11. Classification of Radioactive Waste

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

DS390 being published

DS390 Classification of Radioactive Waste Approved by the Publication Committee ■ ■ ■ ■ ■ □ / Metcalf / Supersedes 111-G-1.1 Classification of Radioactive Waste (1994) Published in English			
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12. Predisposal Management of Radioactive Waste and Safety of Associated Facilities

NPPs **RRs** **FCFs** **WDFs** **MM** **RS** **TR**

To combine and supersede Safety Guides WS-G-2.5 Predisposal management of low and intermediate level radioactive waste (2003) WS-G-2.6 Predisposal management of high level radioactive waste (2003) and GS-G-3.3 The Management System for the Processing, Handling and Storage of Radioactive Waste (2008).

In addition, external events for nuclear waste facilities should be considered.

It will also include WS-G-6.1 Storage of Radioactive Waste (2006) and DS284 on Safety Case and Safety Assessment for Predisposal Management of Radioactive Waste.

WS-G-2.5 Predisposal Management of Low and Intermediate Level Radioactive Waste (2003) Ex DS159 Published in English , Russian			
WS-G-2.6 Predisposal Management of High Level Radioactive Waste (2003) Ex DS163 Published in English , Russian			
GS-G-3.2 The Management System for Technical Services in Radiation Safety (2008) Ex DS315 Published in English , French			
WS-G-6.1 Storage of Radioactive Waste (2006) Ex DS292 Published in English ; Russian			
	DS284 Safety Assessment for Radioactive Waste Predisposal Facilities and Activities	Document being drafted ■□□□□□ / Metcalf /	WASSC, NUSSC, RASSC

13. Arrangements for Preparedness for Nuclear or Radiological Emergencies

NPPs RRs FCFs WDFs MM RS TR

Revision, as necessary of GS-G-2.1 Arrangements for Preparedness for Nuclear or Radiological Emergencies (2006)

It will also include DS44 Criteria for Use in Planning Response to Nuclear and Radiological Emergencies sent to MS for comments, and Communicating with the public during a Radiation Emergency

<p>GS-G-2.1 Arrangements for Preparedness for a Nuclear or Radiological Emergency (2007) Ex DS105 Published in English <u>Co-sponsorship:</u> FAO, ILO, PAHO, OCHA, WHO (Supersedes Safety Series Nos. 50-SG-G6, 50 SG-O6 and 98)</p>			
<p>SS109 Intervention Criteria in a Nuclear or Radiation Emergency (1994)</p>	<p>DS44 Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency dpp</p>	<p>Awaiting approval by the Committees for submission to the CSS ■■■□□□ / Buglova /</p>	<p>RASSC NUSSC, WASSC TRANSSC</p>

14. Arrangements for Response to Radiation Emergencies

NPPs RRs FCFs WDFs MM RS TR

New safety guide to cover

- Facilities of Threat Categories I, II and III.
- Radiation Emergencies of Threat Category IV.
- and Arrangement for response to Radiation Emergencies caused by natural disasters.

15. Remediation Process for Areas Affected by Past Activities and Accidents

NPPs RRs FCFs WDFs MM RS TR

Revision, as necessary of WS-G-3.1 Remediation Process for Areas Affected by Past Activities and Accidents (2007)

<p>WS-G-3.1 Remediation Process for Areas affected by Past Activities and Accidents(2007) Ex DS172 Published in English</p>			
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12. Specific Safety Guides

16. Site Survey and Site Selection for Nuclear Installations

NPPs **RRs** **FCFs** WDFs MM RS TR

Revision of Safety Series 50-SG-S9 (1984): DS433.

	DS433	Project.	
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17. Evaluation of Volcanic Hazards for Nuclear Facilities

NPPs **RRs** **FCFs** **WDFs** MM RS TR

Finalize draft DS405.

	DS405 : Volcanic Hazards in Site Evaluation for Nuclear Installations. A. Godoy. NUSSC, WASSC	Project. DPP approved by NUSSC. Draft approved by NUSSC, awaiting approval by WASSC for submission to MS consultation ■□□□□□/ Godoy /	
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18. Evaluation of Seismic Hazards for Nuclear Installations

NPPs **RRs** **FCFs** WDFs MM RS TR

DS422 to supersede NS-G-3.3 Evaluation of Seismic Hazard for Nuclear Power Plants (2002).

NS-G-3.3 Evaluation of Seismic Hazard for Nuclear Power Plants (2002) Ex DS302 Published in English Supersedes Safety Series No. 50-SG-S1 (Rev. 1)	DS422 Seismic Hazards in Site Evaluation for Nuclear Installations dpp	Approved by the Committees for submission to the Commission ■■■□□□/ Godoy /	NUSSC
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19. Hydrological and Meteorological Hazards in Site Evaluation of Nuclear Installations

NPPs **RRs** **FCFs** WDFs MM RS TR

DS417 to combine and supersede Safety Guides NS-G-3.4 Meteorological Events in Site Evaluation for NPPs (2003) and NS-G-3.5 Flood Hazards for NPPs on River and Coastal Sites (2003) and to expand and update coverage of floods due to tsunamis and to climate change.

NS-G-3.4 Meteorological Events in Site Evaluation for Nuclear Power Plants (2003) Ex DS184 Published in English , Russian Supersedes Safety Series Nos. 50-SG-S11A & S11B	DS417 Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations dpp Will be in the facilities/activities specific area	Awaiting approval by the Committees for submission to Member States ■□□□□□/ Godoy/.	NUSSC
NS-G-3.5 Flood Hazard for Nuclear Power Plants on Coastal and River Sites (2003) Ex DS280 Published in English , Russian Supersedes Safety Series Nos. 50-SG-S10A & S10B			

20. Geotechnical Aspects of Site Evaluation and Foundations for Nuclear Facilities

NPPs **RRs** **FCFs** **WDFs** MM RS TR

To supersede NS-G-3.6 Geotechnical Aspects of Site Evaluation and Foundations for Nuclear Power Plants (2004)

<p>NS-G-3.6 Geotechnical Aspects of Site Evaluation and Foundations for Nuclear Power Plant (2004) Ex DS300 Published in Chinese English, Russian Supersedes Safety Series No. 50-SG-S8</p>			
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21. External Human Induced Events in Site Evaluation for Nuclear Facilities

NPPs **RRs** **FCFs** **WDFs** MM RS TR

To supersede NS-G-3.1 External Human Induced Events in Site Evaluation for Nuclear Power Plants (2002)

<p>NS-G-3.1 External Human Induced Events in Site Evaluation for Nuclear Power Plants (2002) Ex DS258 Published in Chinese English, French, Russian Supersedes Safety Series No. 50-SG-S5</p>			
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22. Construction of Nuclear Facilities

NPPs **RRs** **FCFs** **WDFs** MM RS TR

New safety guide if, after checking the appropriateness of DS349, it is felt necessary to produce a specific guide

<p>DS349 The Management System for Nuclear Installations. Approved by the Publication Committee ■■■■■□ Supersedes 50-SG-Q, Safety Guides Q8-Q14 (1996), [Q8 Research and Development, Q9 Siting, Q10 Design, Q11 Construction, Q12 Commissioning, Q13 Operation, and Q14 Decommissioning]</p>			
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23. Design of the Reactor Coolant System and Associated Systems in Nuclear Installations

NPPs **RRs** **FCFs** **WDFs** MM RS TR

To keep the current safety guide NS-G-1.9, Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants (2004) and to update it as and when it is necessary

<p>NS-G-1.9 Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants (2004) Ex DS282 Published in English Russian Supersedes Safety Series Nos. 50-SG-D6 and 50-SG-D13</p>			
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24. Design of Reactor Containment Systems and other Buildings for NPPs

NPPs **RRs** **FCFs** **WDFs** MM RS TR

The current Safety Guide NS-G-1.10 10 Design of Reactor Containment Systems for Nuclear Power Plants (2004) will be revised and expanded to cover other buildings.

NS-G-1.10 Design of Reactor Containment Systems for Nuclear Power Plants (2004) Ex DS296 Published in English Russian Supersedes Safety Series No. 50-SG-D12			
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25. Design of Safety related Auxiliary Systems for Nuclear Installations

NPPs **RRs** **FCFs** WDFs MM RS TR

New safety guide aimed to cover safety related auxiliary systems

26. Design of Electric Power Systems for Nuclear Installations

NPPs **RRs** **FCFs** WDFs MM RS TR

New Safety Guide that will replace current Safety Guide NS-G-1.8 Design of emergency power systems for NPPs”, (2004), it will expand the scope to include cables, cables trays, etc.

NS-G-1.8 Design of Emergency Power Systems for Nuclear Power Plants (2004) Ex DS303 Published in English Supersedes Safety Series No 50-SG-D7 (Rev. 1)	- DS430 : Design of Electric Power Systems for NPPs, revision of NS-G-1.8, G. Johnson, NUSSC	Project	
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27. Design of I&C Systems for Nuclear Installations

NPPs **RRs** **FCFs** WDFs MM RS TR

New safety guide. It will combine and supersede the current 2 safety guides:

- NS-G-1.1 – Software for computer based systems important to safety in NPPs (2000),
- NS-G-1.3 – “Instrumentation and control systems important to safety in NPPs”, (2002).

NS-G-1.1 Software for Computer Based Systems Important to Safety in Nuclear Power Plants (2000) Ex DS264 Published in Chinese English , French	- DS431 : Design of I & C Systems for NPPs, revision and combination of NS-G-1.1 and NS-G-1.3, G. Johnson, NUSSC	Project	
NS-G-1.3 Instrumentation and Control Systems Important to Safety in Nuclear Power Plants (2002) Ex DS252 Published in Chinese English , French Supersedes Safety Series Nos. 50-SG-D3 and D8			

28. Protection against Internal and External Hazards in the Design of Nuclear Installations

NPPs **RRs** **FCFs** WDFs MM RS TR

NEW safety guide. It will combine and supersede the current 4 safety guides:

- NS-G-1.5 External events excluding earthquakes in the design of NPPs (2003);
- NS-G-1.6 Seismic design and qualification for NPPs (2003);
- NS-G-1.7 Protection against Internal Fires and Explosions in the Design of NPPs;
- NS-G-1.11 Protection against Internal Hazards other than fires and Explosions in the Design of NPPs ; and

It will include design considerations of design aspects for external flood protection (of current NS-G-3.5) that are currently in the series for site evaluation.

<p>NS-G-1.5 External Events Excluding Earthquakes in the Design of Nuclear Power Plants (2003) Ex DS301 Published in English Supersedes Safety Series No. 50-SG-D5 (Rev. 1)</p>			
<p>NS-G-1.6 Seismic Design and Qualification for Nuclear Power Plants (2003) Ex DS304 Published in English, Russian Supersedes Safety Series No. 50-SG-D15</p>			
<p>NS-G-1.7 Protection Against Internal Fires and Explosions in the Design of Nuclear Power Plants (2004) Ex DS306 Published in English Supersedes Safety Series No.50-SG-D2 (Rev. 1)</p>			
<p>NS-G-1.11 Protection against Internal Hazards other than Fires and Explosions in the Design of Nuclear Power Plants (2004) Ex DS299 Published in English Supersedes Safety Series No. 50-SG-D4</p>			
<p>NS-G-3.5 Flood Hazard for Nuclear Power Plants on Coastal and River Sites (2003) Ex DS280 Published in English, Russian Supersedes Safety Series Nos. 50-SG-S10A & S10B</p>			

29. Design of fuel storage systems in NPPs

NPPs | RRs | FCFs | WDFs | MM | RS | TR

To update, when necessary the safety guide NS-G-1.4 Design of Fuel Handling and Storage Systems for Nuclear Power Plants (2003) update, when necessary

<p>NS-G-1.4 Design of Fuel Handling and Storage Systems for Nuclear Power Plants (2003) Ex DS276 Published in English, Russian, Spanish Supersedes Safety Series No. 50-SG-D10</p>			
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30. Radiation Protection Aspects for the Design of NPPs

NPPs | RRs | FCFs | WDFs | MM | RS | TR

It will combine and supersede the current documents:

- Safety Guide NS-G-1.13 – “Radiation Protection Aspects, (2005);
- The radiation protection aspect covered in NS-G-2.7 Radiation Protection and Radioactive Waste Management in the Operation of Nuclear Power Plants (2002), and include guidance occupational exposure

<p>NS-G-1.13 Radiation Protection Aspects of Design for Nuclear Power Plants (2005) Ex DS313 Published in English; Russian Supersedes Safety Series No. 50-SG-D9</p>			
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NS-G-2.7 Radiation Protection and Radioactive Waste Management in the Operation of Nuclear Power Plants (2002) Ex DS187 Published in English , Russian Supersedes Safety Series Nos. 50-SG-O5 and O11			
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31. Radioactive Waste Management Aspects for the Design of NPPs, Research Reactors and Waste Management Systems

NPPs | **RRs** | FCFs | WDFs | MM | RS | TR

It will combine and supersede the current documents:

- Safety Series No.79 – “Design of radioactive waste management systems at NPPs”, (1986) partly incorporated into NS-G-1.13.
- Waste management related aspects covered by the Safety Guide NS-G-4.6 Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors (2008)
- appropriate parts of WS-G-2.1 Decommissioning of Nuclear Power Plants and Research Reactors

79 Design of Radioactive Waste Management Systems at Nuclear Power Plants (1986) mostly covered by NS-G-1.13 above			
NS-G-1.13 Radiation Protection Aspects of Design for Nuclear Power Plants (2005) Ex DS313 Published in English ; Russian Supersedes Safety Series No. 50-SG-D9			
NS-G-4.6 Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors (2008) Ex DS340 Published in English			
WS-G-2.1 Decommissioning of Nuclear Power Plants and Research Reactors (1999) Ex DS257 Published in Arabic , Chinese , English , French , Russian Supersedes Safety Series Nos. 74 and 105	DS402 Decommissioning of Nuclear Power Plants and Research Reactors dpp Will be in the facilities/activities specific area	DPP approved by the CSS in November 2007 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / Louvat/.	WASSC NUSSC

32. Fuel handling in NPPs (design and operation)

NPPs | **RRs** | FCFs | WDFs | MM | RS | TR

To update when necessary the current safety guide NS-G-1.4 Design of Fuel Handling and Storage Systems for Nuclear Power Plants (2003) and include the fuel handling part of the current safety guide NS-G-2.5 Core management and fuel handling for NPPs (2002).

NS-G-1.4 Design of Fuel Handling and Storage Systems for Nuclear Power Plants (2003) Ex DS276 Published in English , Russian , Spanish Supersedes Safety Series No. 50-SG-D10			
NS-G-2.5 Core Management and Fuel Handling for Nuclear Power Plants (2002) Ex DS297 Published in English , Russian Supersedes Safety Series No. 50-SG-O10			

33. Design of Reactor Core for NPPs and Core Management

NPPs RRs FCFs WDFs MM RS TR

To update when necessary the current safety guide NS-G-1.12 Design of the Reactor Core for Nuclear Power Plants (2005) and the core management part of NS-G-2.5 Core management and fuel handling for NPPs (2002).

NS-G-1.12 Design of the Reactor Core for Nuclear Power Plants (2005) Ex DS283 Published in Chinese English , Russian Supersedes Safety Series No. 50-SG-D14			
NS-G-2.5 Core Management and Fuel Handling for Nuclear Power Plants (2002) Ex DS297 Published in English , Russian Supersedes Safety Series No. 50-SG-O10			

34. Storage of Spent Fuel for Nuclear Facilities

NPPs RRs **FCFs** **WDFs** MM RS TR

DS371 to Combine and supersede Safety Series No. 116 Design of spent fuel storage facilities (1994) and Safety Series No. 117 Operation of spent fuel storage facilities (1994). Finalize document DS371. Draft has been sent to MS for comments.

116 Design of Spent Fuel Storage Facilities (1994) 117 Operation of Spent Fuel Storage Facilities (1994)	DS371 Storage of Spent Fuel dpp	Awaiting approval by the Committees for submission to the Commission. ■■■□□□/ Metcalf/	NUSSC, WASSC
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35. Safety Classification of Structures, Systems and Components in Nuclear Installations

NPPs RRs **FCFs** WDFs MM RS TR

DS367: Finalize the guide for NPP and extend to installations in future.

	DS367 Safety Classification of Structures, Systems and Components in Nuclear Power Plants dpp	Incorporating comments from MS ■■□□□□/ Toth /.	NUSSC
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36. Content of the Safety Analysis Report for Nuclear Installations

NPPs RRs **FCFs** WDFs MM RS TR

Revision of the current GS-G-4.1 Format and Content of the Safety Analysis Report for Nuclear Power Plants (2004) to reflect new developments and a more precise scope.

It will also include the technical part of DS416, the process part being in 2

GS-G-4.1 Format and Content of the Safety Analysis Report for Nuclear Power Plants (2004) Ex DS309 Published in Chinese English Supersedes Safety Series No. 50-SG-G2			
GS-G-1.4 Documentation for Use in Regulating Nuclear Facilities (2002) Ex DS290 Published in English , Chinese , French , Russian , Spanish Supersedes Safety Series Nos. 50-SG-G8 and 50-SG-G9	DS416 Licensing Process for Nuclear Installations dpp To compile parts of GS-G-1.2, GS-G-1.4 and the appendix of GS-R-1	Approved by the Committees for submission to the Commission ■■■■□□□ / Calpena /.	NUSSC RASSC WASSC TRANSSC

37. Deterministic Safety Analyses and their Application for NPPs Design and Operation

NPPs RRs FCFs WDFs MM RS TR

Finalize the draft DS395 Deterministic Safety Analyses and their Application for Nuclear Power Plants being sent to the CSS for final endorsement and combine with NS-G-1.2 - Safety assessment and verification for nuclear power plants (2001)

DS395 Deterministic Safety Analysis for Nuclear Power Plants dpp Approved by the Publication Committee. ■■■■■□/ Dusic /			NUSSC
NS-G-1.2 Safety Assessment and Verification for Nuclear Power Plants (2001) Ex DS253 Published in Chinese , English , French , Russian Supersedes Safety Series No. 50-SG-D11			

38. Probabilistic Safety Assessment Design and Operation of NPPs

NPPs RRs FCFs WDFs MM RS TR

To combine DS394 Development and Application of Level 1 PSA for Nuclear Reactors and DS393 Development and Application of Level 2 PSA for Nuclear Power Plants.

Finalize document DS393 and DS394. The drafts are ready for submission to the CSS for final endorsement.

The future guide will include level 3 PSA

DS393 Development and Application of Level 2 Probabilistic Safety Assessment for Nuclear Power Plants dpp Approved by the Publication Committee. ■■■■■□/ Lyubarskiy /			NUSSC
DS394 Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Reactors dpp Approved by the Publication Committee. ■■■■■□/ Lyubarskiy /			NUSSC

39. Radiological Environmental Impact Analysis for Facilities and Activities

NPPs RRs FCFs WDFs MM RS TR

To supersede Safety Guide NS-G-3.2 Dispersion of Radioactive Material in Air and Water and Consideration of Population Distribution in Site Evaluation for NPPs (2002)

Will not cover emergency situation and will make cross-references to 8

NS-G-3.2 Dispersion of Radioactive Material in Air and Water and Consideration of Population Distribution in Site Evaluation for Nuclear Power Plants (2002) Ex DS182 Published in English , Russian Supersedes Safety Series Nos. 50-SG-S3, S4, S6 & S7	DS427 Radiological Environmental Impact Analysis for Facilities and Activities dpp	DPP approved by the CSS. Document being drafted ■□□□□/ Tellerie & Godoy /	WASSC RASSC NUSSC
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40. Periodic Safety Review of NPPs Nuclear Installations

NPPs RRs FCFs WDFs MM RS TR

Revision of NS-G-2.10 Periodic Safety Review of Nuclear Power Plants (2003) (DS426) would include LTO

related issues

NS-G-2.10 Periodic Safety Review of Nuclear Power Plants (2003) Ex DS307 Published in English Supersedes Safety Series No. 50-SG-O12	DS426 Periodic Safety Review of Nuclear Power Plants dpp	Awaiting approval by the Committees for submission to Member States ■ □ □ □ □ □ / Toth /	NUSSC RASSC WASSC
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41. Seismic Evaluation of Existing Nuclear Installations

NPPs	RRs	FCFs	WDFs	MM	RS	TR
NS-G-2.13 Evaluation of Seismic Safety for Existing Nuclear Installations (2009) Ex DS383 Published in English						

42. The Management System for Nuclear Facilities

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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Finalize document DS349. Draft being published.

Then include the revision of the Safety Guides NS-G-2.4 The operating organization for NPPs (2001), with guidance on operational decision making, management of change and self-assessment.

Also include the revision of the Safety Guide NS-G-2.8 Recruitment, qualification and training of personnel for NPPs (2002), with guidance on knowledge management in the revised guide.

And include the revision of the Safety Guide NS-G-4.5 The Operating Organization and the Recruitment, Training and Qualification of Personnel for Research Reactors.

DS349 The Management System for Nuclear Installations. Approved by the Publication Committee ■ ■ ■ ■ ■ □ Supersedes 50-SG-Q, Safety Guides Q8-Q14 (1996) , [Q8 Research and Development, Q9 Siting, Q10 Design, Q11 Construction, Q12 Commissioning, Q13 Operation, and Q14 Decommissioning]			
NS-G-2.4 The Operating Organization for Nuclear Power Plants (2001) Ex DS250 Published in Chinese , English , French , Russian Supersedes Safety Series No. 50-SG-O9			
NS-G-2.8 Recruitment, Qualification and Training of Personnel for Nuclear Power Plants (2002) Ex DS287 Published in English , Russian Supersedes Safety Series No. 50-SG-O1 (Rev. 1)			
NS-G-4.5 The Operating Organization and the Recruitment, Training and Qualification of Personnel for Research Reactors (2008) Ex DS325 Published in English			

43. Commissioning of NPPs

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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To supersede Safety Guide NS-G-2.9 Commissioning of NPPs (2003)

NS-G-2.9 Commissioning for Nuclear Power Plants (2003) Ex DS291 Published in English Supersedes Safety Series No. 50-SG-O4			
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44. Operation of NPPs

NPPs | RRs | FCFs | WDFs | MM | RS | TR

Finalize document DS388 Chemistry Programme for Water Cooled Nuclear Power Plants. A DPP was approved by the CSS in June 2007. The draft has been sent to Member States for comments.

Then combine and supersede Safety Guides NS-G-2.2 Operational limits and conditions and operating procedures for NPPs (2000), NS-G-2.14 Conduct of Operations at Nuclear Power Plants (2008), NS-G-2.1 Fire safety in operation of NPPs (2000) and DS388 and include guidance on configuration management and on transition from operation to decommissioning.

NS-G-2.14 Conduct of Operations at Nuclear Power Plants (2008) Ex DS347 Published in English, Russian			
NS-G-2.2 Operational Limits and Conditions and Operating Procedures for Nuclear Power Plants (2000) Ex DS185 Published in Chinese English, French, Russian Supersedes Safety Series No. 50-SG-O3			
	DS388 Chemistry Programme for Water Cooled Nuclear Power Plants dpp	Approved by the Committees for submission to the Commission <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / Renew /.	NUSSC RASSC WASSC
NS-G-2.1 Fire Safety in Operation of Nuclear Power Plants (2000) Ex DS263 Published in Chinese English, French, Russian			

45. Modification and Maintenance of NPPs

NPPs | RRs | FCFs | WDFs | MM | RS | TR

To supersede Safety Guides NS-G-2.6 Maintenance, surveillance and in-service inspection in NPPs (2002) and NS-G-2.3 Modifications to NPP (2000) and includes NS-G-2.12 Ageing Management for Nuclear Power Plants (2009)

It will also address the issues related to long term operation initially intended to be covered by DS406.

NS-G-2.6 Maintenance, Surveillance and In-Service Inspection in Nuclear Power Plants (2002) Ex DS273 Published in English, Russian Supersedes Safety Series Nos. 50-SG-O2, 50-SG-O7 (Rev. 1) and 50-SG-O8 (Rev. 1)			
NS-G-2.3 Modifications to Nuclear Power Plants (2001) Ex DS251 Published in Chinese, English, French, Russian Spanish			
NS-G-2.12 Ageing Management for Nuclear Power Plants (2009) Ex DS382 Published in English			

46. Feedback of Operating Experience for Nuclear Facilities

NPPs | **RRs** | FCFs | WDFs | MM | RS | TR

To revise and update Safety Guide NS-G-2.11 A system for feedback of experience from events in nuclear installations (2006), and to include guidance on effective corrective action programme, low level events and near misses, and the analysis of precursors and antecedents of events in the revised safety guide.

NS-G-2.11 A System for the Feedback of Experience from Events in Nuclear Installations (2006) Ex DS288 Published in English Supersedes Safety Series No. 93			
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47. On-Site Emergencies for Nuclear Installations

NPPs | **RRs** | FCFs | WDFs | MM | RS | TR

To cover all aspects of on-site emergencies arising from incidents, accidents and severe accidents. This will revise NS-G-2.14 recently published

NS-G-2.14 Severe Accident Management Programmes for Nuclear Power Plants (2009) Ex DS385 Published in English			
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48. Commissioning of Research Reactors

NPPs | **RRs** | FCFs | WDFs | MM | RS | TR

To revise NS- G-4.1 Commissioning of Research Reactors (2006)

NS-G-4.1 Commissioning of Research Reactors (2006) Ex DS259 Published in English			
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49. Radiation Protection Aspects for the Design of Research Reactors

NPPs | **RRs** | FCFs | WDFs | MM | RS | TR

It will combine and supersede the current documents:

- Safety Guide NS-G-1.13 Radiation Protection Aspects of Design for Nuclear Power Plants (2005)
- Radiation protection aspects of NS-G-4.6 Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors (2008)
- and appropriate parts of WS-G-2.1 Decommissioning of Research Reactors.

NS-G-1.13 Radiation Protection Aspects of Design for Nuclear Power Plants (2005) Ex DS313 Published in English ; Russian Supersedes Safety Series No. 50-SG-D9			
NS-G-4.6 Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors (2008) Ex DS340 Published in English			

WS-G-2.1 Decommissioning of Nuclear Power Plants and Research Reactors (1999) Ex DS257 Published in Arabic , Chinese , English , French , Russian Supersedes Safety Series Nos. 74 and 105	DS402 Decommissioning of Nuclear Power Plants and Research Reactors dpp Will be in the facilities/activities specific area	DPP approved by the CSS in November 2007 ■□□□□□/ Louvat/.	WASSC NUSSC
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50. Safety in the Utilization (Experiments) and Modification of Research Reactors

NPPs **RRs** FCFs WDFs MM RS TR

Finalize document DS397. Draft is in preparation and will be submitted to NUSSC in 2009.

35-G2 Safety in the Utilization and Modification of Research Reactors (1994)	DS397 Safety in the Use and Modification of Research Reactors dpp	DPP approved by the CSS, November 2005. Expected to be submitted to the Committees for MS consultation IIQ 2010 ■□□□□□/ Jeannot Boogaard /.	NUSSC
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51. Maintenance of Research Reactors

NPPs **RRs** FCFs WDFs MM RS TR

Finalize document DS412. Submitted to MS for comments.

Then combine and supersede Safety Guides DS412 Ageing Management of Research Reactors and NS-G-4.2 Maintenance, Periodic Testing and Inspections of Research. (2006)

It will also reflect ageing management and maintenance

	DS412 Ageing Management for Research Reactors dpp	Approved by the Committees for submission to the Commission ■■■□□□ / Shokr /.	NUSSC
NS-G-4.2 Maintenance, Periodic Testing and Inspections of Research Reactors (2006) Ex DS260 Published in English			

52. The Application of Graded Approach

NPPs **RRs** FCFs WDFs MM RS TR

Finalize document DS351. Draft is in preparation and will be submitted to NUSSC in 2009.

Either a guide with large scope or to be included in each individual guide (policy decision needed)

	DS351 The Use of a Graded Approach in the application of the Safety Requirements for Research Reactors dpp	Awaiting approval by the Committees for submission to Member States ■□□□□□ / Abou Yehia /.	NUSSC
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53. Licensing Documentation for Research Reactors

NPPs **RRs** FCFs WDFs MM RS TR

Finalize document DS396 on Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report. The draft is in preparation and will be submitted to NUSSC in 2009.

Then combine and supersede Safety Guides NS-G-4.4 Operational Limits and Conditions and Operating Procedures for Research Reactors (2008), DS396 Safety Assessment of Research Reactors and Preparation of the Safety Analysis Report.

35-G1 Safety Assessment of Research Reactors and Preparation of the Safety Analysis Report (1994)	DS396 Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report dpp	Awaiting comments from the Member States (comments due by 31 December 2009) ■■■□□□/ Jeannot Boogaard /.	NUSSC
NS-G-4.4 Operational Limits and Conditions and Operating Procedures for Research Reactors (2008) Ex DS261 Published in English			

54. Instrumentation and Control and Software Important to Safety for Research Reactors

NPPs **RRs** FCFs WDFs MM RS TR

New safety guide

	DS436 Instrumentation and Control and Software Important to Safety for Research Reactors	Project	
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55. Core Management and Fuel Handling for Research Reactors

NPPs **RRs** FCFs WDFs MM RS TR

To revise Safety Guide NS-G-4.3 Core management and fuel handling for research reactors. (2008)

56. Uranium and MOX Fuel Fabrication Facilities

NPPs **RRs** **FCFs** WDFs MM RS TR

Finalize documents DS317 and DS318. The drafts are being published.

Then combine Safety Guides DS317 Uranium fuel fabrication facilities and DS318 fuel fabrication facilities, including decommissioning aspects.

DS317 Safety of Nuclear Fuel Cycle Facilities: Uranium Fuel Fabrication Facilities Approved by the Publication Committee ■■■■■□			
DS318 Safety of Nuclear Fuel Cycle Facilities: Uranium and Plutonium Mixed Oxide Fuel Fabrication Facilities Approved by the Publication Committee ■■■■■□			

57. Conversion and Enrichment Facilities

NPPs **RRs** **FCFs** WDFs MM RS TR

Finalize document DS344. The draft is being published

DS344 Safety of Nuclear Fuel Cycle Facilities: Conversion Facilities and Uranium Enrichment Facilities Approved by the Publication Committee ■■■■■□			
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58. Reprocessing Facilities

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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Finalize the draft DS360

	DS360 Safety of Reprocessing Facilities dpp	DPP approved by the CSS in June 2006. Document being drafted. ■□□□□□/ Abou Yehia /	NUSSC, RASSC, WASSC
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59. Fuel Cycle Research and Development Facilities

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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Finalize the draft DS381

	DS381 Safety of Fuel Cycle Research and Development Facilities dpp	DPP Approved by the CSS in June 2006. ■□□□□□/ Abou Yehia /	NUSSC, RASSC, WASSC
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60. Decommissioning of Nuclear Installations

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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To combine and supersede Safety Guides DS402 on Decommissioning of Nuclear Power Plants and Research Reactors (to supersede WS-G-2.1 (1999)) and DS404 on Decommissioning of Nuclear Fuel Cycle Facilities (to supersede WS-G-2.4 (1999))

WS-G-2.1 Decommissioning of Nuclear Power Plants and Research Reactors (1999) Ex DS257 Published in Arabic , Chinese , English , French , Russian Supersedes Safety Series Nos. 74 and 105	DS402 Decommissioning of Nuclear Power Plants and Research Reactors dpp Will be in the facilities/activities specific area	DPP approved by the CSS in November 2007 ■□□□□□/ Louvat/.	WASSC NUSSC
WS-G-2.4 Decommissioning of Nuclear Fuel Cycle Facilities (2001) Ex DS171 Published in Chinese , English , French , Russian	DS404 Decommissioning of Nuclear Fuel Cycle Facilities dpp Will be in the facilities/activities specific area	DPP approved by the CSS in November 2007 ■□□□□□/ Louvat/.	WASSC NUSSC

61. Decommissioning of Facilities Using NORM

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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New safety guide.

62. Near Surface Disposal of Radioactive Waste

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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Finalize the draft DS356. Later, it will incorporate DS357 and DS355

111-G-3.1 Siting of Near Surface Disposal Facilities (1994)	DS356 Near Surface Disposal Facilities of Radioactive Waste dpp	Document being drafted. Awaiting approval of DS354. ■□□□□□/ Rowat /.	WASSC
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	DS357 Monitoring and Surveillance of Radioactive Waste Disposal Facilities dpp	DPP approved by the CSS June 2007 Document being drafted. Expected to be submitted to the Committees for MS consultation in IIQ2010 ■□□□□□/ Rowat /.	
WS-G-1.1 Safety Assessment for Near Surface Disposal of Radioactive Waste (1999) Published in Arabic , Chinese , English , French , Russian , Spanish	DS355 The Safety Case and Safety Assessment for Radioactive Waste Disposal dpp	Incorporating comments from Member States ■ ■ □ □ □ □ / Metcalf /.	WASSC

63. Geological Disposal of Radioactive Waste

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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Finalize the draft DS334. Later, it will incorporate DS357 and DS355

111-G-4.1 Siting of Geological Disposal Facilities (1994)	DS334 Geological Disposal of Radioactive Waste dpp	Awaiting approval of DS354 by the CSS. MS comments incorporated. ■ ■ □ □ □ □ / Rowat /.	WASSC
	DS357 Monitoring and Surveillance of Radioactive Waste Disposal Facilities dpp	DPP approved by the CSS June 2007 Document being drafted. Expected to be submitted to the Committees for MS consultation in IIQ2010 ■ □ □ □ □ □ / Rowat /.	
WS-G-1.1 Safety Assessment for Near Surface Disposal of Radioactive Waste (1999) Published in Arabic , Chinese , English , French , Russian , Spanish	DS355 The Safety Case and Safety Assessment for Radioactive Waste Disposal dpp	Incorporating comments from Member States ■ ■ □ □ □ □ / Metcalf /.	WASSC

64. Boreholes Disposal of Radioactive Waste

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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Finalize the draft DS335. Later, it will incorporate DS357 and DS355

DS335 Borehole Disposal Facilities for Radioactive Waste Approved by the Publication Committee ■ ■ ■ ■ ■ □ / Metcalf /.			
	DS357 Monitoring and Surveillance of Radioactive Waste Disposal Facilities dpp	DPP approved by the CSS June 2007 Document being drafted. Expected to be submitted to the Committees for MS consultation in IIQ2010 ■ □ □ □ □ □ / Rowat /.	WASSC RASSC
WS-G-1.1 Safety Assessment for Near Surface Disposal of Radioactive Waste (1999) Published in Arabic , Chinese , English , French , Russian , Spanish	DS355 The Safety Case and Safety Assessment for Radioactive Waste Disposal dpp	Incorporating comments from Member States ■ ■ □ □ □ □ / Metcalf /.	WASSC

65. Disposal of Radioactive Ores

NPPs	RRs	FCFs	WDFs	MM	RS	TR
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New guide to deal with long-term exposure issues. Long-term exposure not addressed in 5 on protection of the

Public. . It will also incorporate DS357 and DS355

	DS357 Monitoring and Surveillance of Radioactive Waste Disposal Facilities dpp	DPP approved by the CSS June 2007 Document being drafted. Expected to be submitted to the Committees for MS consultation in IIQ2010 ■□□□□□/ Rowat /.	WASSC RASSC
WS-G-1.1 Safety Assessment for Near Surface Disposal of Radioactive Waste (1999) Published in Arabic , Chinese , English , French , Russian , Spanish	DS355 The Safety Case and Safety Assessment for Radioactive Waste Disposal dpp	Incorporating comments from Member States ■■□□□□/ Metcalf /.	WASSC

66. Management of Waste from the Use of Radioactive Material in Medicine, Industry, Research, Agriculture and Education

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Revision of WS-G-2.7 Management of Waste from the Use of Radioactive Materials in Medicine, Industry, Agriculture, Research and Education (2005)

WS-G-2.7 Management of Waste from the Use of Radioactive Materials in Medicine, Industry, Agriculture, Research and Education (2005) Ex DS160 Published in Chinese English , Russian , Spanish			
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67. Justification of Practices (scope to be precised in the title)

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Finalize the draft DS401 with a scope to be specified in the title

	DS401 Justification of Practices dpp	DPP approved by the CSS, June 2006. Draft in preparation. ■□□□□□/ Boal /.	RASSC
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68. Medical Uses of Ionizing Radiation

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Finalize DS399 to supersede RS-G-1.5. Radiological protection for medical exposure to Ionizing radiation (2002). The issues related to the public exposures resulting from medical application could be addressed here or in a new specific safety guide.

RS-G-1.5 Radiological Protection for Medical Exposure to Ionizing Radiation (2002) Ex DS22 Published in Chinese , English , French , Russian Co-sponsorship: PAHO & WHO	DS399 Safety in Medical Uses of Ionizing Radiation dpp	DPP approved by the CSS, November 2005. ■□□□□□/ Rehani /.	RASSC
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69. Gamma, Electron and X ray Irradiation Facilities

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Finalize DS409

107 Radiation Safety of Gamma and Electron Irradiation Facilities (1992)	DS409 Radiation Safety of Gamma, Electron and X ray Irradiation Facilities dpp	Approved by the Committees for submission to the Commission ■■■□□□/ Reber /	RASSC TRANSSC
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70. Radiation Generators and Sealed Radioactive Sources

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Revision, as necessary of RS-G-1.10 Safety of Radiation Generators and Sealed Radioactive Sources (2006)

RS-G-1.10 Safety of Radiation Generators and Sealed Radioactive Sources (2006) Ex DS114 Published in English Co-sponsorship: ILO, PAHO, WHO			
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71. Industrial Radiography

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Finalize DS408

	DS408 Radiation Safety in Industrial Radiography dpp	Approved by the Committees for submission to the Commission ■■■□□□/ Wheatley /	RASSC TRANSSC
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72. Radioisotope Production Facilities

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

New Safety Guide. DS434

	DS434	Project	
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73. Well Logging

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Finalize DS419

	DS419 Radiation Safety in Well Logging dpp	DPP approved by the CSS in May 2008 Expected to be submitted to the Committees for MS consultation IIQ 2010 □□□□□□/ Boal /	RASSC TRANSSC
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74. Nuclear Gauges

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Finalize DS420

	DS420 Radiation Safety for Nuclear Gauges dpp	DPP approved by the CSS in May 2008 Expected to be submitted to the Committees for MS consultation IIQ 2010 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / Boal /	RASSC TRANSSC
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75. X-ray Generators and Sources Used for Inspection Purposes

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

New Safety Guide

76. Radiation Sources in Research and Education

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

New Safety Guide

77. Decommissioning of Medical, Industrial, Research, Agriculture and Education Facilities

NPPs | RRs | FCFs | WDFs | MM | **RS** | TR

Finalize DS403 to revise WS-G-2.2 Decommissioning of Medical, Industrial and Research Facilities (1999)

WS-G-2.2 Decommissioning of Medical, Industrial and Research Facilities (1999) Ex DS173 Published in Arabic , Chinese , English , French , Russian	DS403 Decommissioning of Medical, Industrial and Research Facilities dpp Will be in the facilities/activities specific area	DPP approved by the CSS in November 2007 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> / Louvat /	WASSC
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78. Advisory Material for the Regulations for the Safe Transport of Radioactive Material

NPPs | RRs | FCFs | WDFs | MM | RS | **TR**

Next revision of TS-G-1.1 (rev.1), DS425

TS-G-1.1 (Rev.1) Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (2008) Ex DS346 Published in English Supersedes TS-G-1.1 (2002) and previous Safety Series Nos. 7 and 37	DS425	Project	
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79. Schedules of Provisions of the IAEA Regulations for the Safe Transport of Radioactive Material

NPPs | RRs | FCFs | WDFs | MM | RS | **TR**

Finalize draft DS387 being sent to the CSS

DS387 Schedules of Provisions of the IAEA Regulations for the Safe Transport of Radioactive Material dpp Approved by the Publication Committee <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> / Zhao /			TRANSSC
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80. Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material

NPPs | RRs | FCFs | WDFs | MM | RS | **TR**

Revision of TS-G-1.2 Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material (2002) may be carried out on a modular basis

TS-G-1.2 Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material (2002) Ex DS246 Published in English , Russian Supersedes Safety Series No. 87			
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81. Radiation Protection Programme for the Safe Transport of Radioactive Material

NPPs | RRs | FCFs | WDFs | MM | RS | **TR**

Revision of TS-G-1.3 Radiation Protection Programmes for Transport Radioactive Material (2007)

TS-G-1.3 Radiation Protection Programmes for Transport Radioactive Material (2007) Ex DS377 Published in English			
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82. Compliance Assurance for the Safe Transport of Radioactive Material

NPPs | RRs | FCFs | WDFs | MM | RS | **TR**

TS-G-1.5 Compliance Assurance for the Safe Transport of Radioactive Material (2009) Ex DS327 Published in English Supersedes Safety Series No.112			
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Current drafts, not maintained for the reference list for the long term:

Established IAEA Safety Standards	Safety Standards in Preparation Working ID - Title	Remarks / Status / Technical Officer/ Expected date of publication	Committee
	DS410 National Strategy for Regaining Control over Orphan Sources and Improving Control over Vulnerable Sources dpp	Awaiting comments from Member States (comments due by 31 December 2009) ■■□□□□/ Reber /.	RASSC
	DS411 Orphan Sources and other Radioactive Material in the Metal Recycling and Production Industries dpp	Awaiting comments from Member States (comments due by 31 December 2009) ■■□□□□/ Reber and Jova Sed /.	RASSC WASSC

13.Projects

PROJECTS – DPPs approved by the Coordination Committee

- **DS405**: Volcanic Hazards in Site Evaluation for Nuclear Installations. A. Godoy. NUSSC, WASSC
- **DS425**: Advisory Material for the IAEA Regulations for the Safety Transport of Radioactive Material, revision of TS-G-1.1. N. Bruno. TRANSSC
- **DS429**: External expert support on safety issues, new safety guide, G. Philip, all Committees
- **DS430**: Design of Electric Power Systems for NPPs, revision of NS-G-1.8, G. Johnson, NUSSC
- **DS431**: Design of I & C Systems for NPPs, revision and combination of NS-G-1.1 and NS-G-1.3, G. Johnson, NUSSC
- **DS432**: Generic Criteria for the Radiation Protection of the Public and the Environment, revision and extension of WS-G-3.2, T. Boal, RASSC, WASSC, NUSSC, TRANSSC
- **DS433** Site survey and Site Selection for Nuclear Installations, A. Godoy, NUSSC, WASSC
- **DS434**: Radiation Safety of Radioisotope Production Facilities, E. Reber, RASSC, WASSC, TRANSSC
- **DS435**: Safety of Small/Medium, Transportable and Floating Nuclear Power Plants, M. Gasparini, NUSSC, TRANSSC
- **DS436**: Instrumentation and Control and Software Important to Safety for Research Reactors, J. Boogaard, NUSSC
- **DS437**: Regulations for the Safe Transport of Radioactive Material, 20XX Edition, J. Stewart & Y.K.Zhao, TRANSSC, RASSC, NUSSC and WASSC