

**Final Resolutions Table of Member State Comments for DPP DS505**  
**Source Monitoring, Environmental Monitoring and Individual Monitoring for Protection of the Public and the Environment**

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Marcus Grzechnik</i>							
<i>Country/Organization: Australia/ARPANSA</i>				<i>Date: 19/4/17</i>			
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1	Page 4, Safety Standards References	There is a reference to GS-G-2.1, which is under revision as this document is produced (DS504). Suggest adding this information into the reference provided.	These documents should refer to each other.	X			

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: multiple reviewers Country/Organization: Health Canada				Date: April 11, 2017			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
1	7. Overview	<p>6. Considerations for Monitoring in Different Exposure Situations 7. Considerations in Dose Assessment 8. Interpretation of Monitoring Results</p> <p>All these consider: Planned exposure situations Existing exposure situations Emergency exposure situations</p> <p>It is suggested to group the material as follows 6. Planned exposure situations 7. Existing exposure situations 8. Emergency exposure situations</p> <p>And discuss the considerations, dose assessment and interpretation of results within each of those headings</p>	<p>Repeating</p> <ul style="list-style-type: none"> <li>• Planned exposure situations</li> <li>• Existing exposure situations</li> <li>• Emergency exposure situations</li> </ul> <p>is more prone to unnecessary repetitions; whereas discussing the considerations, dose assessment and interpretation of results within each of those headings is more seamless and better contained for each exposure situation.</p>	X			ACCEPTED. The structure of DS505 has been updated, such that <b>Chapter 6</b> of DS505 will focus on planned exposure situations, <b>Chapter 7</b> on emergency exposure situations and <b>Chapter 8</b> on existing exposure situations. Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring of DS505.

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewers: Christophe Serres</i> <i>Country/Organization: France / IRSN</i> <i>Date: March 24, 2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1.			To add an introduction on radioprotection principles in order to identify different ways to manage optimization	X			ACCEPTED. As suggested, the importance of applying the principles of radiation protection in the planning and implementation of monitoring is an important aspect of this document. This concept has been included in <b>Section 3</b> of the DPP for DS505 and will be covered in <b>Chapter 2</b> of the DS505, and possibly in other chapters, as appropriate.

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<i>Reviewers: Christophe Serres</i> <i>Country/Organization: France / IRSN</i> <i>Date: March 24, 2017</i>							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
2.	Para. 3 à 8		To better describe how the interaction with the public at the different steps of the process should be managed. Information is not sufficient: the strategy should be built in concertation with the public.	X			ACCEPTED. The Overview ( <b>Section 7</b> of the DPP for DS505) has been updated, as follows, to address this: <ul style="list-style-type: none"> <li>• “5.9 <i>Review of the monitoring strategy and programme <u>and consultation with interested parties</u></i>”</li> <li>• “6.4 <i>Interpretation, <u>reporting, and communication of monitoring results</u></i>” [for planned exposure situations]</li> <li>• “7.4 <i>Interpretation, <u>reporting, and communication of monitoring results</u></i>” [for emergency exposure situations]</li> <li>• “8.4 <i>Interpretation, <u>reporting, and communication of monitoring results</u></i>” [for existing exposure situations]</li> </ul>

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3.			To develop in a dedicated chapter how the graded approach principle is derived regarding the possible different situations (see comment 1) and the different goals of the surveillance		X		<p>It is accepted that application of the graded approach is important in establishment a monitoring programme and this will be covered in <b>Chapter 5</b> of DS505.</p> <p><b>Chapter 4.2</b> of the DS505 will address surveillance and has been modified, as such.</p> <p>Please see <b>Section 7</b> of the DPP for DS505 for details on the proposed updated structure of DS505.</p>
4.	Chapitre 5		To add uncertainty management in chapter 5 and address all steps of the process, not only dose calculation (chap 7) but also the whole process (sampling strategy, measurements technics...)	X			<p>ACCEPTED. The Overview (<b>Section 7</b> in the DPP) has been updated, as follows, to cover this:</p> <ul style="list-style-type: none"> <li>“5.7 <i>Quality and uncertainty management</i>”</li> </ul>

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Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
5.	Chapitre 4		To develop long term surveillance in the chapter 4.	X			<p>ACCEPTED. <b>Chapter 4.2</b> in the DPP for DS505 has been updated, as follows:</p> <ul style="list-style-type: none"> <li>• <i>4.2 Fit-for-purpose monitoring and surveillance (e.g. routine monitoring, follow up monitoring, monitoring for root cause analysis)</i></li> </ul> <p>Please see <b>Section 7</b> of the DPP for DS505 for details on proposed restructuring of DS505.</p> <p>Details on how to incorporate the concept of surveillance will need to be discussed during the development of DS505.</p>
6.			To add a mention on the resources (funding) that is a key aspect in order to be able to implement actions		X		<p>It is accepted that this is an important topic to cover in the document and it will be covered in <b>Chapter 3</b> of DS505.</p> <p>Please see <b>Section 7</b> of the DPP for DS505 for details on proposed restructuring of DS505.</p>

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Volodymyr Berkovskyy</i> <i>Country/Organization: ICRU 28</i> <i>Date:27/4/2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1	General	A general comment is that the ICRU RC28 believe that It is the very promising and timely proposed revision of the RS-G- 1.8 and the well prepared DPP.		Thank you for the positive feedback.			
2		In section 7 of the DPP the following topics can be indicated explicitly:  a. Goals and objectives of the monitoring programmes for each of exposure situations (Chapter 6);		X			
		b. The role of the government in the establishing of national monitoring programmes and systems (Chapter 3);		X			
		c. Transboundary issues and international exchange of monitoring data (role of the IAEA), international legal instruments (conventions, agreements, etc.);			X		This item has been added to the bulleted list in <b>Section 3</b> of the DPP for DS505.
		d. Role of the individual monitoring;			X		This will be defined in the Scope of DS505.

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Reviewer: Volodymyr Berkovskyy Country/Organization: ICRU 28 Date: 27/4/2017							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
		e. Monitoring in various environmental conditions: urban, natural and semi-natural environments; air, terrestrial and aquatic environments, etc.			X		This will be covered in the relevant sections of DS505 (e.g., <b>Chapter 5</b> of DS505).
		f. Data processing and interpretation:  i. Relationship between projected, residual and averted doses;			X		This will be covered in the text of <b>Chapter 6.3, 7.3, and 8.3</b> of DS505 for planned, emergency and existing exposure situations, respectively.  Please see <b>Section 7</b> of the DPP for DS505 for details regarding proposed changes in structure.
		ii. Assessment of the distribution of individual doses based on monitoring data;			X		This will be covered in the text of <b>Chapters 6.3, 7.3, and 8.3</b> of DS505 for planned, emergency and existing exposure situations, respectively.



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		iii. Communication of monitoring data to the regulatory body, decision makers, general public, other stakeholders etc. (recording and reporting);			X		This will be covered in the text of <b>Chapters 6.4, 7.4, and 8.4</b> of DS505 for planned, emergency and existing exposure situations, respectively.
		iv. Interpretation of multiple measurements and multiple data sources and their comparison with OILs.			X		This will be covered in the text of <b>Chapter 8.4</b> of DS505 for planned, emergency and existing exposure situations, respectively.
		v. Use/role of the massive “crowd” monitoring data obtained by non-experts with the numerous simple devices;			X		This will be covered in the text of <b>Chapters 6.4, 7.4, and 8.4</b> of DS505 on <i>Interpretation, reporting, and communication of monitoring results</i> for planned, emergency and existing exposure situations.  In addition, further

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							guidance will be provided in <b>Chapters 6.5, 7.5 and 8.5</b> of DS505 on <i>Uncertainties in monitoring and dose assessment</i> for planned, emergency and existing exposure situations, respectively.  Details on the proposed structure of DS505 can be found in <b>Section 7</b> of the DPP for DS505.
3		We would advise to avoid in the DPP the term “characterization” (as it defined in the IAEA Glossary), but to use the language of the Safety Requirements: “Assessment of site characteristics”, “to characterize” as expressions of a general meaning. We believe that the use of the term “characterization” in the DPP can introduce confusions in interpretation of the current IAEA system of			X		This is a good point and it is accepted that DS505 will need to clearly define the relationship and distinction between characterization and monitoring.  How to appropriately address the issues of

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<i>Reviewer: Volodymyr Berkovskyy</i> <i>Country/Organization: ICRU 28</i> <i>Date:27/4/2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
		<p>requirements:</p> <p>a. “Monitoring” is explicitly required by safety standards (GSR Part 3 and 4), but the characterization is mentioned just as “Assessment of site characteristics” “to characterize”, etc. Safety Requirements use the term “monitoring” as overarching term for any kind of monitoring programmes, including preoperational studies, characterization of physico-chemical properties of radioactive material and environmental conditions, collection of the associated metadata.</p> <p>b. It is not clear from the DPP if “characterization” is a kind of activity within “monitoring”, “monitoring” is a tool for “characterization” or it is a stand-alone type of activity complimentary to monitoring (DPP uses phrases “characterization and</p>					<p>characterization and monitoring in DS505 will be a point of discussion throughout the development of the document.</p>

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<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
		monitoring”); c. GSR Part 4 Requirement 8: “Assessment of site characteristics” lists 3 groups of the site characteristics and just Group A is explicitly related to the monitoring. We believe that Group B and C are beyond the scope of the proposed DPP. d. The term “characterization” is defined in the IAEA glossary as: <ul style="list-style-type: none"> <li>i. Determination of the nature                and activity of radionuclides                present in a specified place.                Such type of activity is usually                considered as an element of the                monitoring programme;</li> <li>ii. Determination of the character                of something (e.g. waste                characterization, site                characterization)</li> </ul>					

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Jila Karimi Diba (EPRéSC)</i> <i>Country/Organization: IRAN/National Radiation Protection Department (NRPD)</i> <i>Date: 2017-04-20</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1	Page 3/first paragraph and last paragraph	<p>First paragraph is about further guidance on the supplementary characterization and monitoring of parameters other than radioactivity for example non-radiological contaminants. But in the last paragraph, it is mentioned that the safety guide will not cover monitoring of non-radiological contaminants.</p> <p>Will the safety guide cover the monitoring of non-radiological contaminants or not?</p>		X			ACCEPTED. Reference to non-radiological contaminants has been deleted from <b>Section 3</b> (first bullet on Page 3) of the DPP for DS505, as suggested.

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Avraham Tshuva</i> <i>Country/Organization: Israel</i> <i>Date:21/4/2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1	1. IDENTIFICATION – Proposed Title	Radiological Monitoring for Protection of the Public and the Environment. Source, Environmental and Individual	The document emphasizes that it concentrates only on radiological monitoring. Monitoring is the subject and it should stand in the front, not source, environment and so on.		X		<p>It is agreed that the title may require some refinement, and this will be discussed and the title adjusted, as necessary, during the development of DS505</p> <p>For the purposes of this DPP, the proposed title is similar to the original standard, with the exception of adding Individual Monitoring, and DS505 will cover all three types of monitoring. Source monitoring has been listed first in the title, as was done in RS-G-1.8 [2005], which it will supersede, since radionuclides can be released from a source, resulting in the need for environmental monitoring, and in some cases, individual monitoring.</p> <p>The title will be modified, as necessary, as a result of further discussion during the development of DS505.</p>

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<i>Reviewer: Avraham Tshuva</i> <i>Country/Organization: Israel</i> <i>Date:21/4/2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
2	7. OVERVIEW 5. SETTING A STRATEGY	Qualification of the people who dose the sampling	One of the main issues in sampling is to do it right by qualified workers	X			ACCEPTED. A new chapter will be added to DS505 on “ <i>Training of Personnel</i> ” ( <b>Chapter 5.11</b> of DS505).  Detailed information on the proposed structure of DS505 can be found in <b>Section 7</b> of the DPP for DS505.

COMMENTS BY REVIEWER

RESOLUTION

Reviewer: T. Homma

Page.1.. of..1..

Country/Organization: JAPAN/Nuclear Regulation Authority

Date:21.04.2017

Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
1		Although RS-G-1.8 has already addressed individual monitoring, it is appropriate to explicitly include 'individual monitoring' in the proposed title of this revision. The content related to individual monitoring should be enhanced in this revised document.	One of the lessons learned from the Fukushima Daiichi accident is the importance of individual monitoring under emergency exposure situations and existing exposure situations.	X			
2		Section 5 in OVERVIEW of DPP should be subdivided based upon three exposure situations.	Setting a strategy for monitoring and planning a monitoring programme are heavily dependent of exposure situations.		X		It is accepted that guidance for the three exposure situations be provided in separate sections. This will be incorporated in in <b>Chapters 6-8</b> of DS505, as captured in <b>Section 7</b> (OVERVIEW) of the DPP for DS505.



<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer:</i> <i>Country/Organization: Japan/NRA</i> <i>Date: 24 April 2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1	Review Committee(s) or Group	The leading committee should be RASSC.	The leading committee of the original Safety Guide was RASSC, hence WASSC would not be justified as a leading committee. The leading committee should be determined with a topic driven basis. It should be noted that WASSC was the leading committee of DS407 “ <i>Criticality Safety</i> ” (current SSG-27) initially, but later the Safety Guide had been developed under NUSSC as the leading committee.		For discussion		This is to be discussed as an agenda item in the joint RASSC/WASSC meeting.
2	5. Scope/5 (p.4)	Add the following text to the end of the second paragraph. These topics are addressed in DS453 “ <i>Occupational Radiation Protection</i> ”, DS504 “ <i>Arrangements for Preparedness and Response for a Nuclear or Radiological Emergency</i> ” and DS399 “ <i>Radiation Protection</i>	Clarification. Relevant documents should be shown here.		X		It is agreed that it is important to ensure that DS505 is consistent with relevant safety standards and that it would be useful to include a list of relevant references in DS505 in support of the guidance being provided. Therefore, a reference to DS504 has been added to <b>Section 6</b> of the DPP for DS505 (the earlier

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Reviewer: Country/Organization: Japan/NRA Date: 24 April 2017							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
		<i>and Safety in Medical Uses of Ionizing Radiation”.</i>					version of the DPP for DS505 had referenced GS-G-2.1, which will be superseded by DS504). In addition, an appendix will be added to DS505 to provide a list of relevant references to complement DS505 (a bullet has been added to the list of <i>APPENDICES or ANNEXES</i> in <b>Section 7</b> of the DPP for DS505 to cover this).  Monitoring of workers and the workplace are out of scope of the document, as is monitoring of patients (please see <b>Section 5</b> of DPP on <i>SCOPE</i> ).
3	5. Scope/5 (p.4)	Add the following texts between the second and the third paragraphs on page 4.	Clarification. To keep clear allocation between DS505 and SSG-31.		X		It is accepted that the scope should be clarified to state that monitoring of disposal facilities will

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Reviewer: Country/Organization: Japan/NRA Date: 24 April 2017							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
		<p>“This Safety Guide also will not address the monitoring of disposal facilities specifically. This topic are addressed in SSG-31 “<i>Monitoring and surveillance of radioactive waste disposal facilities</i>”.</p>					<p>not be covered in DS505. The suggested wording has been accepted and incorporated in <b>Section 5</b> of the DPP for DS505, with slight modification, as follows:</p> <p><i>“This Safety Guide also will not address the monitoring of disposal facilities, as this is addressed in SSG-31.”</i></p>
4	7. OVERVIEW line 9-21 (p.6)	<p>The content of chapters 6, 7 &amp; 8 (Consideration for monitoring, Consideration in dose assessment &amp; Interpretation of monitoring results, respectively) seems to be hardly differentiated in three exposure situations. Thus, it is proposed to draft these chapters as follows;</p>	<p>Part of the monitoring techniques and dose assessment procedures would be overlapped in three situations; such redundant descriptions should be avoided.</p>		X		<p>It is accepted that the chapters should be restructured. A similar comment was provided by Canada and the section headings were adjusted, taking account of both sets of comments.</p> <p>In terms of level of detail, more generic headings were included in <b>Chapters 6.2, 7.2</b> and</p>

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Reviewer: Country/Organization: Japan/NRA Date: 24 April 2017							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
		Chapter 6. Planned exposure situations Chapter 7. Emergency exposure situations Chapter 8. Existing exposure situations Section titles of each chapter would be: X.1 Monitoring instruments and procedures; X.2 Assessments of doses and their uncertainties; X.3 Interpretation of the monitoring and dose assessment results.					<b>8.2</b> of DS505 on “ <i>Considerations for monitoring</i> ” for planned, emergency and existing exposure situations, respectively, which would include monitoring instrumentation and procedures, amongst other topics.
5	General	Clarification is needed for 3 type monitoring and 3 type exposure situation.	The nature of the monitoring program will change at different stages of operation of a facility. At the operational stage, environmental monitoring is designed to establish existing activity concentrations and radiation dose rates in the	X			ACCEPTED. The requirements for the different exposure situations will be detailed in <b>Chapter 2</b> of DS505. In addition, <b>Chapters 6-8</b> in <b>Section 7</b> of the DPP

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<i>Reviewer:</i> <i>Country/Organization: Japan/NRA</i> <i>Date: 24 April 2017</i>							
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			environment. As you can see in the description on monitoring at emergency, how will it be described about monitoring at normal operation of a facility? (It is an opinion that it is better to describe emergency and normal operation of a facility separately.)				have been restructured, with one section on each of the three exposure situations. Within these sections, considerations for monitoring at all stages of the life cycle of a facility or activity will be covered, as indicated in the <b>Section 5</b> of the DPP for DS505 on SCOPE.  Please see <b>Section 7</b> of the DPP for DS505 for the details on the proposed structure of DS505.

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Rima Ladygienė Country/Organization: Radiation Protection Centre, Vilnius, Lithuania Date: 06/04/2017							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
1	<b>7. OVERVIEW</b> The Safety Guide is expected to have the following contents	<i>Chapter 3. Responsibilities for monitoring may be extended with the responsibilities for state level and municipality level environmental radiological monitoring or to include this content in the 3.3 Responsibilities of other agencies;</i>	<i>Typically environmental monitoring is at 3 different levels – state, municipality and operating organization</i>		X		<p>It is accepted that DS505 should provide guidance on responsibilities of the government for monitoring, as suggested. Therefore, a new chapter (<b>Chapter 3.1</b>) will be added to DS505 on “<i>Responsibilities of the government</i>” to address this.</p> <p>DS 505 will focus on the responsibilities of the national government. It is the responsibility of national governments to delegate responsibilities to other levels. DS 505 will include text stating that it might be appropriate that the national government delegates the responsibilities for monitoring to other administrative levels.</p> <p>Please see <b>Section 7</b> of the draft DPP for DS505 for</p>

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Rima Ladygienė</i> <i>Country/Organization: Radiation Protection Centre, Vilnius, Lithuania</i> <i>Date: 06/04/2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
							details regarding proposed restructuring of DS505.
2	<b>7. OVERVIEW</b> The Safety Guide is expected to have the following contents	<i>Chapter 6 Considerations for monitoring in different exposure situations, 6.1 Monitoring in planned exposure situation - may be extended with the explanation of monitoring before starting of operation of facility</i>	<i>Monitoring need to be performed some years before the operation of facility will start to have background level).</i>	X			The scope of DS505 will cover all facilities and activities over the different stages of their life cycles.

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Pakistan Nuclear Regulatory Authority (PNRA)</i>							
<i>Country/Organization: Pakistan/PNRA</i>							
<b>Com ment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1.	Section 6	<ul style="list-style-type: none"> <li>• <b>Environmental sampling and analysis during planned or emergency situations (IAEA-TECDOC -1092)</b></li> <li>• <b>Measurement of radionuclide in food and environment (IAEA TRS-295)</b></li> <li>• <b>Leadership and management for Safety (GSR Part 2.)</b></li> </ul>	Information addressed in the proposed documents is directly linked with this draft safety guide and therefore, these may be included as interface documents in Section-6 of DPP.		X		<p>It is accepted that IAEA TECDOC-1092 and TRS-295 provide relevant supporting information on monitoring. As it is not typical practice to refer to reports that are not safety standards within a safety standard, an appendix could be added to DS505 with a list of useful references, including these. A bullet has been added to the <i>APPENDICES or ANNEXES</i> in <b>Section 7</b> of the DPP for DS505 to capture addition of such an appendix.</p> <p>GSR Part 2 covers monitoring of supply chains, which is not directly relevant to DS505.</p>
2.	<b>Section 7 (Overview)</b>  <b>new sub Section before 5.10)</b>	<b>Management Action</b>	A new section 7 may be added in this regard as was proposed in the presentation on “Agenda item W 4.3” delivered in		X		It is accepted that action may be required following evaluation of monitoring results, for example. This will be covered within the existing <b>Chapter 5.10</b> of DS505, and will also be discussed in <b>Chapter 3</b> of DS505 on responsibilities for monitoring.



<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Pakistan Nuclear Regulatory Authority (PNRA)</i>							
<i>Country/Organization: Pakistan/PNRA</i>							
<b>Com ment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
			41 <sup>st</sup> WASSC meeting (sub-Section 5.9 management action).				Please see <b>Section 7</b> of the DPP for DS505 for details on the proposed structure of DS505.
3.	<b>Section 7 (Overview)</b>  <b>Proposed new sub-section 9</b>	<b>Quality Management</b> <ul style="list-style-type: none"> <li><b>Quality management for monitoring</b></li> <li><b>Quality management for dose assessment</b></li> </ul>	Although Quality Management for monitoring is addressed in section 5.7 of DPP; it should be made a separate section “Quality Management” including two sub-sections as listed since QM should be implemented throughout the monitoring program as well as for the dose assessment.		X		It is accepted that quality management for monitoring and dose assessment are important topics. These will be covered in <b>Chapter 5.7</b> of DS505 on Quality and uncertainty management.
4.	Section 7 (overview)	Data analysis, assessment and	Feedback is necessary for		X		It is accepted that the concept of feedback is important. This will be covered in <b>Chapter 5.10</b> of DS505 on Evaluation

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Pakistan Nuclear Regulatory Authority (PNRA)</i>							
<i>Country/Organization: Pakistan/PNRA</i>							
<b>Com ment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
	(Sub- section 5.8)	interpretation, reporting and <b>feedback.</b>	evaluation and redesign phase of monitoring program. It may be useful to include feedback as part of data analysis, assessment and interpretation, and reporting.				and redesign.
5.	<b>Section 7 (Overview)</b>  <b>Proposed new sub- section 10</b>	<b>Education Training</b> <b>and</b>	Education and training is also a part of existing safety guide RS-G- 1.8. In addition, GSR Part 3 emphasize on education, training, qualification and competence in protection and safety of all persons engaged. Therefore, the topic may also be a part of this safety guide.	X			ACCEPTED. A new chapter ( <b>Chapter 5.11</b> ) will be added to DS505 on training of personnel.

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Pakistan Nuclear Regulatory Authority (PNRA)</i>							
<i>Country/Organization: Pakistan/PNRA</i>							
<b>Com ment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Zoe Ghitulescu</i>							
<i>Country/Organization: Romania</i>							
<i>Date: 20.04.2017</i>				<i>Page 1 of 1</i>			
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1.	General	The draft structure revising the safety guide RS-G-1.8, it is quite focused on the updating its specific areas or related aspects.		X			
2.	General	As it is stipulated, the draft standard has the objective of protecting people and the environment considering the principle of radiation protection and taking into account aspects of monitoring and assessment of the radiological situation. The recommended Option 1 by the IAEA Secretariat for the complete revision of RS-G-1.8 it is suitable with the large topic of the guide and with the need of underlining the aspects discussed in the Safety Reports Series No. 64.		X			

3.	General	The draft is very well organized as a detailed analysis on the population exposure from various sources of radiation, together with the environmental monitoring program and with the dose assessment. Aspects connected with planning and monitoring strategy for emergency exposure situations will constitute an interface with other relevant standards.		Thank you for your comments.			
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<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewers: Andrey Sobolev, Marina Nepeypivo, Irina Abalkina</i> <i>Country/Organization: Russian Federation /</i> <i>Radioactive Waste Management Enterprise "RosRAO" (FSUE RosRAO)</i> <i>Scientific and Engineering Centre for Nuclear and Radiation Safety (SEC NRS)</i> <i>Nuclear Safety Institute of the Russian Academy of Sciences (IBRAE RAS)</i> <i>Date: March 24,</i> <i>2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>

COMMENTS BY REVIEWER				RESOLUTION			
<p>Reviewers: Andrey Sobolev, Marina Nepeypivo, Irina Abalkina  Country/Organization: Russian Federation /  Radioactive Waste Management Enterprise “RosRAO” (FSUE RosRAO)  Scientific and Engineering Centre for Nuclear and Radiation Safety (SEC NRS)  Nuclear Safety Institute of the Russian Academy of Sciences (IBRAE RAS)  Date: March 24, 2017</p>							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
7.	Page 5, Para.7 lines 7-8 from the bottom	Incorporate into the text of Subsection 4.1 “General types of monitoring” the following types of monitoring: source monitoring, environmental monitoring and individual monitoring.	<p>For clarity and consistency with the title of DS505 and for continuity of the document, see RS-G-1.8 “4.18. Monitoring for radiation protection of the public can be divided <b>into three types:</b></p> <ul style="list-style-type: none"> <li>- monitoring at the source (source monitoring),</li> <li>- monitoring in the environment (environmental monitoring) and,</li> <li>- in very rare cases, individual monitoring of members of the public”.</li> </ul> <p>If the contents of Subsection 4.1 “General types of monitoring” are explained as “routine monitoring, follow up monitoring, monitoring for root cause analysis” this can be misleading.</p>	X			<p><b>Chapters 4.1 and 4.2</b> in DS505 will be modified, as follows:</p> <p><i>4.1 General types of monitoring (source monitoring, environmental monitoring and individual monitoring)</i></p> <p><i>4.2 Fit-for-purpose of monitoring and surveillance (e.g. routine monitoring, follow up monitoring, monitoring for root cause analysis)</i></p> <p>Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring.</p>





<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Multiple Reviewers</i>							
<i>Country/Organization: South Africa/ Eskom/ NNR</i>							
<i>Date: 19.04.2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1	Title	What is the reason for the emphasis of Individual Monitoring in the proposed title of the Document as opposed to the current approved title. It was noted that Individual motoring was already included in the definition section of the Current Approved RS-G-1.8, 2005.	Clarification		X		<p>This is a good question. Individual monitoring is included in the proposed title of DS505 due to focus on individual monitoring to capture new information and lessons learned from international events, such as the Fukushima-Daiichi Accident that happened following publication of RS-G-1.8 [2005].</p> <p>In addition, DS505 will cover source monitoring, environmental monitoring, and individual monitoring. Therefore, all are included in the title.</p> <p>Please see resolution to Comment 1 from the EPreSC representative from Japan.</p>
2	General comment	The document must address recording, management, storage and reporting of monitoring data	Addressed in current RS-G-1.8	X			ACCEPTED. These topics will be covered in <b>Chapter 5</b> of DS505. In addition, new chapters will be added to DS505,

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Multiple Reviewers</i>							
<i>Country/Organization: South Africa/ Eskom/ NNR</i>							
<i>Date: 19.04.2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
							as follows, which will address interpretation, reporting and communication of monitoring results ( <b>Chapters 6.4, 7.4 and 8.4</b> for planned, emergency and existing exposure situations, respectively).  Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring.
3	General comment	The document outline should follow a systematic step by step approach relating to:  1. Monitoring of Facilities (Registration and Licenced) 2. Monitoring of Source term determination (prospective or measured) 3. Monitoring of discharge pathways (terrestrial, aquatic) 4. Monitoring of dilution of source term (meteorology,	Addressed in GSR Part 3 and Part 7		X		ACCEPTED. Guidance regarding monitoring and quality management for different types of facilities and activities, and exposure situations will be covered in <b>Chapters 6, 7 and 8</b> of DS505 on planned, emergency, and existing exposure situations, respectively. Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring.  Detailed approaches and tools to

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Multiple Reviewers Country/Organization: South Africa/ Eskom/ NNR Date: 19.04.2017							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
		hydrology, oceanography) 5. Monitoring of deposition of source term in the environment (X/Q) 6. Monitoring of biota, produce (transfer factors) 7. Monitoring and identification of the representative person (highest exposed individual). Habit surveys 8. Calculation of doses to RP and Biota 9. Quality assurance, Reporting and recording of data					how to conduct a dose assessment and corresponding parameter values (e.g., transfer factors) will not be included in the scope. These topics are being covered in the update to SRS 19 on “ <i>Generic models for use in assessing the impact of discharges of radioactive substances to the environment</i> ”, for example.
4.	General comment	The document should specify in the scope which facilities, practices or actions are relevant for the different exposure situations.	Addressed in GSR Part 3 and Part 7	X			ACCEPTED. Guidance regarding monitoring and quality management for different types of facilities and activities, and exposure situations will be covered in <b>Chapters 6, 7 and 8</b> of DS505 on planned, emergency, and existing exposure situations, respectively. Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring.

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Multiple Reviewers</i>							
<i>Country/Organization: South Africa/ Eskom/ NNR</i>							
<i>Date: 19.04.2017</i>							
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
							Although a detailed list of facilities and activities is not included in the DPP for DS505 (instead, a reference to the IAEA Safety Glossary [2016] is provided), this will be covered in DS505 itself.  Please see resolutions of Comment 3 from USA and Comment 2 of UAE.
5.	General comment	The document should address derivation of source terms for prospective assessments and based on monitoring including application of uncertainty	Addressed in GSR Part 3 and Part 7		X		It is agreed that general guidance on considerations for derivation of source terms should be included in DS505. More details regarding how to derive the source terms from monitoring results will be provided in underlying IAEA technical documents.
6.	General comment	The document should address in-situ monitoring of discharge pathways routine sampling, grab-sampling or composite sampling including application of	Addressed in GSR Part 3 and Part 7	X			ACCEPTED. This will be covered in <b>Chapter 5</b> of DS505 (as detailed in Section 7 of the DPP for DS505. In addition, consideration could be given to

COMMENTS BY REVIEWER				RESOLUTION			
<i>Reviewer: Multiple Reviewers</i> <i>Country/Organization: South Africa/ Eskom/ NNR</i> <i>Date: 19.04.2017</i>							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
		measurement uncertainty					provide more detailed information on this in an appendix.
7.	General comment	The document should address the migration pathways of activity into the environment and application of remote monitoring in the field including application of measurement uncertainty	Addressed in GSR Part 3 and Part 7		X		ACCEPTED. This will be covered in <b>Chapter 5</b> of DS505. Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring.  More details regarding exposure pathways are provided in underlying IAEA technical documents (e.g., update to SRS19; reports from IAEA model validation programmes, such as EMRAS, EMRAS II, MODARIA, and MODARIA II, etc.).
8.	General comment	The document should address the monitoring of biota in potentially affected areas for different exposure situations including application of measurement uncertainty	Addressed in GSR Part 3 and Part 7		X		AGREED. This will be covered in <b>Chapters 6 and 8</b> of DS505 (as detailed in <b>Section 7</b> of the DPP for DS505). Biota monitoring would not be necessary in emergency exposure

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Multiple Reviewers Country/Organization: South Africa/ Eskom/ NNR Date: 19.04.2017							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
							situations.
9.	General comment	The document should address the identification and individual monitoring programme for the representative person for different exposure situations including application of measurement uncertainty	Addressed in GSR Part 3 and Part 7		X		ACCEPTED. This will be covered in DS505 in appropriate chapters (e.g., individual monitoring for members of the public will be covered in <b>Chapter 7</b> of DS505 for emergency exposure situations).
10.	General comment	The document should address the dose calculation methodologies for the biota and Representative Person.	Addressed in GSR Part 3 and Part 7		X		ACCEPTED. Guidance regarding dose assessment for members of the public, and as applicable, for biota, will be provided in <b>Chapters 6-8</b> of DS505. Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring.  Detailed dose calculation methodologies will not be included in the scope of DS505. These topics are being covered in the update to SRS 19 on “ <i>Generic models for use in assessing the impact of discharges of radioactive</i> ”

COMMENTS BY REVIEWER				RESOLUTION			
<i>Reviewer: Multiple Reviewers</i> <i>Country/Organization: South Africa/ Eskom/ NNR</i> <i>Date: 19.04.2017</i>							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
							<i>substances to the environment”, for example.</i>
11.	General comment	The document should address the dose QA processes and the data management system	Addressed in GSR Part 3 and Part 7	X			ACCEPTED. These topics will be addressed in <b>Chapters 5.7</b> and <b>5.8</b> of DS505. Please see <b>Section 7</b> of the draft DPP for DS505 for details regarding the proposed restructuring.

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca &amp; Walid El Mowafi</i>							
<i>Country/Organization: UAE - FANR</i>				<i>Date: 2017-Apr-21</i>			
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
1	Point 5, para 5	<p>Monitoring of emergency workers will not be addressed. Is this correct?</p> <p>The current version of the RS-G-1.8 on its para 1.14 also refers that the guide “does not address monitoring workers and the workplace, although its implementation and guidance may be useful for the occupational protection of emergency workers in the event of an accident”, but does not exclude emergency workers.</p> <p>The current guide has several references to emergency workers.</p> <p>Another related point. Are helpers during an emergency planned to be considered?</p>	Monitoring emergency workers and helpers is key during emergencies and this or other IAEA safety standard should consider it.		X		<p>It is accepted that guidance is needed on occupational protection of emergency workers (including helpers). This is covered in DS453 on Occupational Radiation Protection, and is, therefore, out of the scope of DS505.</p> <p>In addition, further details on monitoring of emergency workers will be covered in an Emergency Preparedness and Response (EPR) Monitoring publication, which will supersede TECDOC-1092. An appendix listing relevant references will be included in DS505 and will include reference to this EPR Monitoring publication. This appendix has now been added to the list of <i>APPENDICES</i> or <i>ANNEXES</i> presented in <b>Section 7</b> of the DPP for DS505.</p>



COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca & Walid El Mowafi							
Country/Organization: UAE - FANR				Date: 2017-Apr-21			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
2	Background 1/ 2	Refer to other facilities <b>using radioactive materials</b>	To be more specific		X		It is accepted that the wording could be improved. <i>To address this, “, such as hospitals and research institutes”</i> has been deleted and a reference to the IAEA Safety Glossary [2016] has been added to clarify what is meant by the term <i>“facilities”</i> .  Please see the resolutions of Comment 4 of South Africa and Comment 4 of the USA.
3	Background 1,/4	revise  radiological criteria <b>for protecting environment and controlling</b> the exposure of the public	The radiological criteria should consider protection of the environment.		X		The suggested text has been incorporated, with very minor modifications, as follows:  <i>“radiological criteria for controlling exposure of the public and protecting the environment”</i> .
4	Background 3/3	Revise the sentence  <b>The evaluation of site</b> characterization is typical undertaken <b>to be</b> a basis for	More understandable		X		It is accepted that the text, as written, was unclear and has been modified, as follows:  <i>“Characterization is typically</i>

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca & Walid El Mowafi							
Country/Organization: UAE - FANR				Date: 2017-Apr-21			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
		.....					<i>undertaken as part of the site evaluation as a basis for the environmental impact assessment”.</i>
5	Background 3/7	Delete or in cases where the monitoring data do not reflect model predictions that were generated as part of the environmental impact assessment.	usually the monitoring data do not reflect model predictions (no need for this part)		X		It is accepted that the identified text would benefit from clarification. Therefore, the following text has been deleted to address the comment and as it is too detailed for a DPP:  <i>“, for example, in the case of uncontrolled radioactive releases or in cases where the monitoring data do not reflect model predictions that were generated as part of the environmental impact assessment”.</i>
6	3. JUSTIFICATION FOR THE PRODUCTION OF THE DOCUMENT	Application of the principles of justification, optimization and limitation in planning source monitoring and environmental monitoring for planned, <b>emergency</b> and existing exposure	Should be applicable for emergency situation	X			

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca & Walid El Mowafi							
Country/Organization: UAE - FANR				Date: 2017-Apr-21			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
	2/first bullet	situations;					
7	3. JUSTIFICATION FOR THE PRODUCTION OF THE DOCUMENT  2/3 <sup>rd</sup> bullet	Level of characterization and monitoring required at different stages and <b>circumstances</b> of the lifetime of different facilities and activities;	It might be up normal situation “circumstances” occurred at different stages.		X		ACCEPTED, with a very minor modification, as follows:  <i>“in different circumstances and stages of the lifetime”.</i>
8	3. JUSTIFICATION FOR THE PRODUCTION OF THE DOCUMENT  2/5 <sup>th</sup> bullet	Planning and implementation of a harmonized monitoring strategy and programmes for regulatory compliance for protection of people and the environment in planned, <b>emergency</b> and existing exposure situations;	Monitoring strategy should be implemented in case of emergency	X			
8	3. JUSTIFICATION FOR THE PRODUCTION OF THE DOCUMENT  2/6 <sup>th</sup> bullet	.....and the environment in planned, <b>emergency</b> and existing exposure situations;	See previous comment	X			

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca & Walid El Mowafi							
Country/Organization: UAE - FANR				Date: 2017-Apr-21			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
9	4. OBJECTIVE 2/2	The Safety Guide is intended for use by regulatory bodies, operating organizations, decision-makers and others responsible for <b>developing monitoring strategy,</b>	Developing Monitoring strategy need to be added, mainly the Guide shall define and addresses this important subject for the concerned entities.	X			
10	5. SCOPE 5/2	Monitoring of emergency workers will also <b>not</b> be addressed. (delete not)	Monitoring of emergency workers shall be consider under individual monitoring			X	It is agreed that guidance is needed on monitoring of emergency workers, but as this is being covered in other IAEA documents (please see response to Comment 1 above), it is out of the scope of DS505.
11	6 1/4	radiation protection and safety of radiation sources, facilities, safety assessment and emergency preparedness and response.	Added facilities		X		It is agreed that facilities need to be covered in DS505. Facilities can be a type of radiation source, as defined in the IAEA Safety Glossary [2016]. That said, it is agreed that because there is more than one definition for “source” in the Glossary, the text is unclear, as written. Therefore, to clarify, “of radiation sources” has been

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca & Walid El Mowafi							
Country/Organization: UAE - FANR				Date: 2017-Apr-21			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
							<i>changed to “sources of radiation”</i>
12	7 <b>Bullet 6 (6.2)</b>	Reword it Monitoring in different emergency phases.	Monitoring might be for response phase (exposure situations) and recovery phase as well.		X		Based on <i>Comment 1</i> received from Canada, <b>Chapters 6-8</b> have been restructured into the three exposure situations. <b>Chapter 7</b> will address emergency exposure situations and will cover the different emergency phases.  Please see <b>Section 7</b> of the DPP for DS505 for details on the proposed structure of DS505.
13	Section 3	The relationship between characterization and monitoring, and their relevance to <del>regulatory instruments and functions (such as environmental impact assessment, authorization, inspection, and enforcement)</del> , regulatory body oversight as appropriate  Modify the text	regulatory oversight very well understood by MS’s all process such as (licensing/authorization, assessment, inspections and enforcement), however, there are different regulatory agencies might apply their regulatory body oversight, such as		X		It is agreed that the text, as written, was unclear. That said, replacement of the text with “ <i>regulatory body oversight</i> ” does not entirely capture what will be covered in DS505. Therefore, to clarify the text, “ <i>regulatory instruments</i> ” has been replaced with “ <i>regulatory activities</i> ”.

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca & Walid El Mowafi							
Country/Organization: UAE - FANR				Date: 2017-Apr-21			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
			environmental agency, food control, health authority.....etc..				
14	Section 3	<p>Planning and implementation of a monitoring strategy for emergency exposure situations; <b>as part of relevant protection strategy during emergency.</b></p> <p>Add text</p>	<p>should be consistent with GSR part 7 requirement 5 or maybe we would like to cross reference other requirements as appropriate</p>		X		<p>It is agreed that DS505 needs to cover planning and implementation of a monitoring strategy for emergency exposure situations, and this has now been added (as suggested in <i>Comment 8</i> above), as follows:</p> <p><i>“Planning and implementation of a harmonized monitoring strategy and programmes for protection of people and the environment in planned, emergency, and existing exposure situations;”</i></p> <p>To ensure balance in the DPP</p>

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Fahad Al Blooshi, Genaro Rodrigo Salinas Mariaca & Walid El Mowafi							
Country/Organization: UAE - FANR				Date: 2017-Apr-21			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
							regarding the three different exposure situations, the additional details in bold, have not been added, but will be covered in the text of DS505 during the development of the document.
15	Section 3	<p>Further clarification of the roles and responsibilities of the regulatory body, the operating organization, and various relevant authorities and organizations, for example, in relation to reporting in case of multiple jurisdictions, communication and consultation with interested parties and other relevant areas;</p> <p>Recommendation;</p> <p>Process identifying the relevant parties including relations, roles and responsibilities as per their core business.</p>			X		<p>It is agreed that the meaning of “<i>other relevant areas</i>” is unclear (it was intended to mean “<i>other relevant topics</i>”). To address this, “<i>and other relevant areas</i>” has been replaced by “<i>etc.</i>”.</p> <p>Details, such as those provided in the Recommendation in <i>Comment 15</i>, will be included in the text of DS505.</p>

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: US Nuclear Regulatory Commission WASSC/RASSC (Contact: Bobby Abu-Eid, Bobby.abu-Eid@nrc.gov) Country/Organization: United States of America/US NRC				Date: April 20, 2017			
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
1.	Title	We recommend modifying the title From: <i>“Source Monitoring, Environmental Monitoring, and Individual Monitoring for Protection of the Public and the Environment.”</i> To: <i>“Monitoring Sources of Radioactive Discharges or Releases and Affected Environmental Media for Protection of the Public and the Environment.”</i>	Monitoring of individual is already covered under protection of the public and may contemplate worker’s monitoring which is outside the scope of this guidance.		X		It is accepted that the title may require some refinement, and this will be discussed and the title adjusted, as necessary, during the development of DS505.  For the purposes of this DPP, the proposed title is similar to the original standard, with the exception of adding Individual Monitoring  Therefore, to address this point, as suggested in <i>Comment 3</i> (below), a sentence has been added to the Scope stating that:  <i>“The Safety Guide will cover individual monitoring of members of the public in existing and emergency</i>



*COMMENTS BY REVIEWER*

*Reviewer: US Nuclear Regulatory Commission WASSC/RASSC*

*(Contact: Boby Abu-Eid, Boby.abu-Eid@nrc.gov)*

*Country/Organization: United States of America/US NRC*

*Date: April 20, 2017*

*RESOLUTION*

Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
							<p><i>exposure situations.”</i></p> <p>The title may be modified as a result of further discussion during the development of DS505.</p> <p>Please see the resolution to Comment 1 from Israel.</p>
2.	General	We recommend the document allocate a special Section addressing environmental monitoring data spatial and temporal variability and recommended statistical approach to analyze and average such data considering inherent measurement uncertainties including background and detection limits.	Spatial and temporal variability and statistical analysis of environmental data are of paramount importance to demonstrate regulatory compliance.	X			<p>New chapters will be added to DS505, as follows, which will address:</p> <ul style="list-style-type: none"> <li>• Interpretation, reporting and communication of monitoring results (<b>Chapters 6.4, 7.4 and 8.4</b> for planned, emergency and existing exposure situations, respectively); and</li> <li>• Uncertainties in monitoring and dose assessment (<b>Chapters 6.5, 7.5 and 8.5</b></li> </ul>

<i>COMMENTS BY REVIEWER</i>				<i>RESOLUTION</i>			
<i>Reviewer: US Nuclear Regulatory Commission WASSC/RASSC  (Contact: Boby Abu-Eid, Boby.abu-Eid@nrc.gov)  Country/Organization: United States of America/US NRC</i>				<i>Date: April 20, 2017</i>			
<b>Comment No.</b>	<b>Para/Line No.</b>	<b>Proposed new text</b>	<b>Reason</b>	<b>Accepted</b>	<b>Accepted, but modified as follows</b>	<b>Rejected</b>	<b>Reason for modification/rejection</b>
							for planned, emergency and existing exposure situations, respectively).
3.	General	The safety guide, as provided in the title “Source Monitoring, Environmental Monitoring, and Individual Monitoring for Protection of the Public and the Environment,” indicates covering individual monitoring. Further, Section 4. “Objective” states that the safety guide will provide guidance on individual monitoring for the purposes of assessment of radiological impacts and consequences for the public. However, the Section 5. “Scope” states that the Safety Guide will not address the monitoring of workers, the workplace, emergency workers, and patients.	Clarification	X			To address this comment, a sentence has been added to the Scope stating that:  <i>“The Safety Guide will cover individual monitoring of members of the public in existing and emergency exposure situations.”</i>  DS505 will cover individual monitoring of members of the public, for example, following a nuclear or radiological emergency.  Occupational monitoring is covered in other IAEA Safety

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*RESOLUTION*

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		If the title was not modified, we recommend that either the “Objective” or the “Scope” addresses to whom (e.g.; which population) the individual monitoring would apply. Is it only for one represented person, or for all the individuals being impacted at different locations near the facility, or near the source being released?					Standards (e.g., DS453) and is, therefore, out of the scope of DS505. That said, any relevant considerations to ensure harmonization (e.g., conceptually) will be considered, as appropriate.
4.	Section 2 Background, lines 1-2	Modify lines 1-2 to read:  “The authorized discharge of limited amounts of radionuclides to the environments is a legitimate practice by the nuclear industry as well as by the authorized users of radionuclides such as hospitals, pharmaceutical industry, analytical laboratories, and research institutions.”	Language and completeness to include pharmaceutical industry and analytical laboratories.		X		It is agreed that it is difficult to provide a comprehensive list of relevant types of facilities and that some were missing from the list of examples provided in the original text. To resolve this issue and to balance other Member State comments received on the same issue (e.g., Comment 4 from South Africa; Comment 2 from UAE), the detailed list of

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							<p>examples has been removed and instead, a reference has been made to the IAEA Safety Glossary [2016], which provides a comprehensive list.</p> <p>Specifically, the text has been modified, as follows:</p> <p><i>“The authorized discharge of limited amounts of radionuclides to the environments is a legitimate practice in the nuclear industry and from other facilities (IAEA Safety Glossary, 2016), such as hospitals and research institutes.”</i></p>
5.	Section 2, lines	<p>Modify lines 3-4 to read:</p> <p>“Control of radionuclide discharge or release quantities and monitoring of relevant</p>	<p>Language and completeness to address control and monitoring of radionuclide discharges or releases in a quantified</p>		X		<p>It is agreed that it is important to capture the concept of monitoring to ensure and demonstrate control of discharge. To address this, the</p>

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		environmental media are key regulatory requirements to ensure compliance with radiological criteria for exposure of the public and protection of the environment.	manner.				text has been modified as follows:  <i>“Monitoring of discharges and of relevant environmental media is a key regulatory requirement in order to ensure compliance with radiological criteria for <del>exposure</del> <u>controlling exposure</u> of the public and protecting the <u>environment</u>.”</i>  The focus of DS505 is monitoring. Control of radioactive discharge is covered in DS442.
6.	Section 2, Paragraph 2 Lines 1-6	Modify Para to read: “The planning and establishment of robust, fit-for-purpose monitoring programmes <b>are</b> essential <b>aspects</b> of demonstrating and verifying regulatory compliance, <del>for example</del> , to fulfil	Language and completeness.		X		Thank you for the comments, which have improved text. The proposed changes have been accepted, with slight modifications, as follows:  <i>“The planning and</i>

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		<p>the <b>license</b> conditions for an authorized facility. Such monitoring programmes should <b>take into</b> account of the stage in the lifetime of the facility or activity. <del>Such monitoring</del> These programmes can be established using a step-wise approach to satisfy IAEA safety requirements, <b>as well as good</b> practices with-                      accounting for <del>taken</del> of the experience that has been gained by other organizations.”</p>					<p><i>establishment of robust, fit-for-purpose monitoring programmes are essential aspects of demonstrating and verifying regulatory compliance, for example, to fulfil the licence conditions for an authorized facility. Such monitoring programmes should take into account the stage in the lifetime of the facility or activity. These programmes can be established using a step-wise approach to ensure consistency with IAEA safety requirements, as well as good practices.”</i></p>
7.	Section 2 Paragraph 3, line 6	<p>Modify line 6 to read:                      “..necessary during the operation and post-operation stages of a facility; <b>particularly</b> for example</p>	Language and expression.		X		<p>Thank you for your comment. The end of the sentence, starting at “for example” has been deleted to address this</p>

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		in the case of ..”					comment and the sentence now reads, as follows:  “Characterization may also be necessary during the operation and post-operation stages of a facility.”
8.	Section 3, para 1, lines 6-10	Two consecutive sentence begin with “As a result...” Recommend removing this transitional phrase from one of the two sentences.	Editorial and improve readability	X			ACCEPTED. The second “As a result,” has been deleted, as suggested, and replaced with “In addition,”.
9.	Section 3, Para 2, line 2	Modify line 2 to read: “The following areas proved <b>to justify</b> require update, <b>through</b> further elaboration or inclusion in the revision of RS-G-1.8	Use of the expression “require” is inappropriate since this is a guidance document; and language to link parts of the sentence.	X			ACCEPTED. Modified as suggested.
10.	Section 3, Page 2, bullet 3	Modify bullet 3 to read: - The relationship between characterization and monitoring and their relevance to regulatory <b>enforcement instruments</b> and <b>assessment of safety</b> functions (e.g.; such as environmental impact	Use of proper terminology and completeness.		X		It is accepted that the text was not clear as originally written and the suggested changes have been incorporated with some modifications, as follows:  “The relationship between characterization and

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		assessment, authorization, inspection, and/or enforcement).					<p><i>monitoring, and their relevance to regulatory tools and functions for assessment of safety (such as environmental impact assessment, authorization, inspection, and enforcement)”</i></p> <p>As suggested, the concept of “assessment of safety” has been added to the text.</p> <p>The concept of enforcement is included in the bracketed list of regulatory roles and responsibilities, and the term “instruments” has been replaced with the term “tools” to reflect the intended meaning.</p>