$Title: DS557-Safety\ Requirements:\ Site\ Evaluation\ for\ Nuclear\ Installations-SSR-1\ (Rev.1)$

Reviewer:						RESOLUTION			
Country/On Date: 14.11	1.2025	sian Federation/ Rostechnadzor							
Comment No.	Para/Line No.	Proposed new text	Reason	Accept ed	Accepted, but modified as follows	Rejected	Reason for modification/rejection		
1	Page 8	Propose deleting the bullet: "Application of graded approach: RIPB and alternatives"	Propose deleting the bullet as RIPB (Risk informed performance-based approach) is not defined or recommended in IAEA publications.	Yes	Actually the RIPB is defined in other SGs, such as SSG-67 (Subsection 1.2). For the sake of simplicity, the "PB" part has been deleted				
2	Page 8	Propose deleting the bullet: "Applicability to fusion reactor facilities"	Propose deleting the bullet as fusion reactor facilities are not yet reflected in IAEA Safety Standards. We suggest revisiting the discussion on the accounting method for fusion facilities in SSR-1 once the requirements for fusion installation design have been developed.	yes	The statement in the scope has been rephrased as: "In addition, although fusion facilities are not considered nuclear installations, the level of applicability				

3	Page 1	Propose to elaborate the text "The development of several technical documents by the IAEA (list available at the website) that consolidate Member States'	Several technical documents mentioned without naming them. propose to elaborate the text specifically name all the techn documents intended to be used as if for revising the Safety Requirem SSR-1. The phrase "list available at websit not clear – such a list is not found. The reasons for revising SSR-1 do appear to be adequately just without referencing the documentioned above.	and nical nput nents e" is	of this document to fusion facilities will be assessed" Text modified as follows: "list available at the IAEA website under "Related Publications" to all the SGs referenced in chapt.6"		
		experiences with recent events".					
Reviewer: Country/O Date: 14.1	rganization:	COMMENTS BY REVIEWE ferapontov Page 2 of 2 Russian Federation/ Rostechnadzor		ı	RESOLUTION		
4	Page 7	Propose to rewrite the phrase: "All changes will consider compatibility with all recently reviewed SGs and Requirements in particular with SSR-2/1 (rev.1).	The sentence should be rewritten since: - Safety Requirements are not required to align with Safety Guides; rather, Safety Guides must be aligned with Safety Requirements. - SSR-2/1 (Rev. 1) was published in 2016. Therefore, there are no compatibility issues with SSR-1, which was published in 2019.			Yes	The review process for these documents is not strictly sequential, meaning we do not first review the Requirements and only then the relevant Safety Guides. Because the Safety Guides undergo continuous review, it may occur that new concepts are

		introduced in the
		Safety Guides before
		the corresponding
		the corresponding Requirement is
		updated. Therefore,
		this is not an issue of
		ensuring that the
		Requirements comply
		with the Safety
		Guides, but rather one
		of updating the
		Requirements to
		incorporate concepts
		that have been
		anticipated in recently
		reviewed Safety
		Guides.

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		COMMENTS BY REVIEWER			RESOL	UTION	
Page 1 of 1 Reviewer: Country/Org	1	Meir Markovits SRAEL - Nuclear Licensing and Safety Office, Israel Atomic Energy Commission	ember 16, 2025				
Comment No.	Paragraph No.	Comment Fusion facilities are mentioned in this Section 5 (Scope), as an example for emerging technologies.	Reason	Accepted	as follows		Reason for modification/ Rejection
1.	Section 2 Background	Fusion facilities are mentioned also in the Gap Analysis annexed to the present DPP. We would like to suggest considering adding fusion facilities to the	Completeness	Yes	See above		
		diversified list of emerging novel technologies detailed in the Background (Section 2) even if this will necessitate an additional remark stating that fusion facilities are out of scope for this Guide.					
2	General Remark Section 7 (Overview)	Section 7 mentions that the terminology used in the revision is expected to be consistent with the IAEA Nuclear Safety and Security Glossary (2022). We suggest adding an appropriate remark (or footnote) "acknowledging" that the present version of the 2022 Interim 2022 edition of the Glossary, for obvious reasons, does not include terms for Small Modular Reactors, Microreactors, Transportable Reactors and Floating Power Plants.	Completeness			Yes	There is no need for that, as the Glossary does not necessarily include all definitions used in the Safety Guides and Requirement s, but only a subset of them. In any case, the
							Glossary is updated

COMMENTS BY REVIEWER

Reviewer: Federal Ministry for the Environment, Climate Action, Nature Conservation and Nuclear Safety (BMUKN) (with comments of GRS)

Pages: 3

	Country/Organization: Germany Country/Organization: Germany Country/Organization: Germany Country/Organization: Germany Date: 14.11.2025						
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection
1.	Page 3 Section 3 Line 10	Site characterization techniques: Updated requirements on site investigation techniques (and preliminary) guidance on the application of the graded approach are required for all phases of a plant's life, including site selection, site evaluation, construction, operation yes.	Please put in line with DS535 – new version of SSG-25 "Periodic Safety Review for Nuclear Power Plants". It is usual for the decommissioning stage to be divided into a number of phases depending on the selected decommissioning strategy, with a systematic transition phase between operation and decommissioning, where defueling activities and preparations for decommissioning typically take place. In some cases, the transition phase might be considered as the last phase of the operational stage. However, some Member States consider this transition as part of decommissioning itself.	Yes	modified as follows		modification/rejection
2.	Page 8 Annex Line 21	Application of graded approach, ÷ Risk Informed Performance Based (RIPB) design principles and alternatives.	Wording is confusing. Might be understood as if Risk Informed Performance Based (RIPB) design principles are alternatives to graded approach, although they have supporting	Yes			

RESOLUTION

			function.				
3.	Page 8	2) Safety objectives for	Mention of Core Damage	yes			
J.	Annex	, ,	Frequency (CDF) and Large	yes			
	Line 24	external event scenarios	Early Release Frequency				
		• Application of safety	(LERF) in this context is				
		objectives (usually	misleading, delete please.				
		expressed in terms of CDF					
		and LERF) to all safety					
		related structures,					
		systems and components					
		(i.e. in the reactor island,					
		access to the UHS, etc.) at					
		the siting phase,					
		supporting a site license					
		application. Review					
		current text with special					
		reference to advanced					
		reactors					
4.	Page 8	 Application of DID to the 	Level 4 and Level 5 are			Yes	It is better that it
	Annex	protection strategy	cases of severe accidents				remains, as the design
	Line 32	against external events	and mitigation of the				of level 4 and 5 for
		and safety assessment for	radiological consequences of significant releases,				external events is not straightforward.
		all plant technologies, in	actually the case of DID				straightfor ward.
		particular level 4 and 5,	failure. This is to be				
		and for transportable	avoided by design.				
		_	Hence please delete.				
		nuclear power plants, especially for the					
		J 3					
		feasibility of emergency					
	Daga O	planning measures.	1) []		Changed		
5.	Page 9 Annex	• Identification of beyond-	1) Identification of beyond-design-basis-external-event	yes	Changed into "Monitoring needs		
	Line 5	design-basis-external-	scenarios is required for		and support to		

event scenarios (BDBEE)	design (e.g. specification of	operator decision"	
to be used for design and	danian arranaian		
the plant safety	2) what to understand under		
assessment;	prevention, mitigation and		
	restart in this context?		
• Monitoring needs and	Additional explanation /		
S	more precise formulation		
interfaces with operator	would be helpful.		
decision, prevention,	Alternative – to delete.		
mitigation and restart.			

COMMENTS BY REVIEWER

Reviewer: Shane Turner

Page 1 of 2

Country/Organization: UK / Office for Nuclear Regulation (ONR)
Date: 17/11/2025

Comment	Para/Line	Proposed new text	Reason	Accepted	Accepted, but	Rejected	Reason for
No.	No.				modified as follows		modification/rejection
1	Page 4 Section 5		It is not considered appropriate to include	yes	See above		
	Line 5		fusion within scope of				
	Line 3	Remove reference to fusion.	SSR-1.				
	Page 8						
	Annex		SSR-1 relates to nuclear				
	List item		installations. Fusion is				
	1)		not defined as a nuclear				
	Bullet 9		installation (based on the				
			IAEA glossary). Fusion				
			neither uses nor produces				
			nuclear material.				
			Therefore the DPP is				
			inconsistent with the				
			IAEA safety glossary.				
			The UK supports the				
			current approach of the				
			IAEA Safety Assessment				
			Section, as presented at				
			the IAEA Technical				
			Meeting on Fusion Safety				
			and Regulation in				
			Granada (2025), to build				
			up specific fusion safety				
			standards from the Safety				
			Fundamentals and				
			General Safety				
			Requirements (which				

RESOLUTION

			
	apply to	all uses of	
	ionising rad	iation).	
		·	
	A clear	agreed plan	
		IAEA and	
		ates is needed	
		fusion within	
		EA safety	
		This needs to	
		ned by the	
		vork of the	
		y Assessment	
		therwise there	
		gh risk of	
	inconsisten	<u> </u>	
		across the	
	safety sta		
		GG-68 (Design	
	of Nuclear	Installations	
	Against Ex	ternal Events	
	(Excluding	Earthquakes))	
		ided fusion	
	within scor	be, but others	
		revision have	
		DS559 DPP	
		of Specific	
		ide SSG-35,	
		ey and Site	
		for Nuclear	
	Installations		
	Instanations).	

COMMENTS BY REVIEWER Reviewer: Nuclear Regulatory Bureau Safety Standard Division Page 6 of 10 Country/Organization: Republic of Korea/ Nuclear Safety and Security Commission (NSSC) Date: Nov. 14, 2025					RESO	LUTION	
Comment	Para/Line	Proposed new text	Reason	Accepted	Accepted, but	Rejected	Reason for
No.	No.				modified as follows		modification/rejection
1	CONTEN	3.4 Flooding Hydrological hazards	According to the	yes			
	TS / Line		comment resolution table				
	No. 19		from the previous step 3,				
			this review comment was				
			accepted, but DS557 DPP				
for step 4 has not been							
			modified.				