DS462

TABLE OF COMMENTS RESOLUTION

Comments from Argentina, Germany NUSSC, Germany WASSC, France, Finland, Poland, Japan NUSSC, Japan WASSC, USA, Switzerland, Canada, Ukraine, ENISS and WNA

Addenda to the IAEA Safety Requirements:

- GSR Part-1 on Governmental, Legal and Regulatory Framework for Safety
- NS-R-3 on Site Evaluation for Nuclear Installations
- SSR-2/1 on Safety of Nuclear Power plants: Design
- SSR-2/2 on Safety of Nuclear Power plants: Commissioning and Operation
- GSR Part 4 on Safety Assessment for Facilities and Activities

Status

STEP 7: first review by the Review Committees (NUSSC, RASSC, TRANSSC, WASSC)
Information of NSGC

Addendum to NS-R-3

Lesson learned	Current text	Propos	sal following NUSSC WG meet	ting held from 5 to 8 March 2013	Proposed Resolution of the Committees Meetings
Germany WASSC	Additional modification not initially proposed by the Secretariat	"Previous safety standards on this subject related to land based, stationary thermal neutron power plants. This Safety Requirements publication has been extended to cover a more comprehensive range of nuclear installations: land based, stationary nuclear power plants and research reactors, as well as nuclear fuel cycle facilities, including but not limited to enrichment plants, processing plants, independent spent fuel storage facilities and reprocessing plants." Assign a new footnote No. 2 to the term 'nuclear installations' with the following text of the footnote: "The new definition of 'nuclear installation' includes: nuclear power plants; research reactors (including subcritical and critical assemblies) and any adjoining radioisotope production facilities; spent fuel storage facilities; facilities for the enrichment of uranium; nuclear fuel fabrication facilities; conversion facilities; facilities for the reprocessing of spent fuel; facilities for the predisposal management of radioactive waste arising from nuclear fuel cycle facilities; and nuclear fuel cycle related research and development facilities."	ores and radioactive waste disposal facilities".		 1.9. Previous safety standards on this subject related to land based, stationary thermal neutron power plants. This Safety Requirements publication has been extended to cover a more comprehensive range of nuclear installations*:land based, stationary nuclear power plants and research reactors, as well as nuclear fuel cycle facilities, including but not limited to enrichment plants, processing plants, independent spent fuel storage facilities and reprocessing plants. In some instances in this publication a requirement is stated to apply to nuclear power plants. In these cases, the requirements are most appropriate for nuclear power plants, but they may also apply to other nuclear installations using a graded approach. Footnote referring to the revised definition of nuclear installations in the Safety Glossary
		last sentence: " In some instances in this publication, a requirement is stated to apply to nuclear power plants. In these cases, the requirements are most appropriate for	Use of graded approach is recommended in site evaluation, in accordance with the Draft Safety		

	resolution table draft 1, 7 Ji	nuclear power plants, but they may al apply to other nuclear installations us graded approach on the basis of their potential radiological hazards and nor radiological hazards (e.g. the presence flammable, explosive, toxic or corross materials). For sites at which nuclear installations of different types are collocated, particular consideration siguen to the use of a graded approach that site evaluation is commensurate to most hazardous nuclear installation."	Aspects in Siting for Nuclear Installations" (revision of SG-S9, draft version 00.17 dated 6 May 2013). The basis for grading the application of the requirements is very important. Therefore, it		X accepted but only with the mention of a graded approach		
Germany WASSC	1.13 Additional modification not initially proposed by the Secretariat	"This publication is concerned mainly severe events of low probability that it to the siting of nuclear installations at have to be considered in designing a particular nuclear installation. If even lesser severity but higher probability a significant contribution to the overathey should shall also be considered it design of the nuclear installation."	relate of defence in depth in the design of a nuclear installation. ts of make ll risk,		X The section 1 is not meant to establish requirements		1.13. This publication is concerned mainly with severe events of low probability that relate to the siting of nuclear installations and that have to be considered in designing a particular nuclear installation. If events of lesser severity but higher probability make a significant contribution to the overall risk, they will also need toshould also be considered in the design of the nuclear installation.
Germany WASSC	3.53 Additional modification not initially proposed by the Secretariat	"In the design of systems for long ter heat removal from the core, site rela parameters, such as the following, sh shall be considered:"	ted of defence in depth in the	X			3.53. In the design of systems for long term heat removal from the core, site related parameters, such as the following, shallould be considered:
Germany WASSC	General	Note: In numerous paras in NS-R-3, especial Section 2, requirements are provided "should" statements. Please check callin each individual case whether they to be replaced by "shall" statements.	be provided. need	х			Changes from "should" to "shall" to be incorporated in 2.1, 2.7, 2.8, 2.11, 2.13, 2.15, 2.18 (two should), 2.20, 4.8, 4.11, 4.14, 6.3, 6.4
learned	2.5 Proposed sites for nucl with regard to the frequence and human induced events the safety of the installation	2.5 Proposed sites for nuclear installato the frequency and severity of externation co-occurrences phenomena that converge phe	nal n ould	atural and huma affect the safety ent parameters sh	of the installation.	2.5 Proposed sites for nuclear installations shall be examinedevaluated with regard to the frequency and severity of external natural and human induced events and credible combinations of these eventsphenomena that could affect the safety of the installation. New paragraph after 2.5a: 2.5b Site specific design and safety assessment parameters shall be	

	resolution table draft 1,				knowledge and methodologies, and their safety implications shall be evaluated.
Japan	2.1 and 2.5	 2.1.(a) The effects of external events occurring in the region of the particular (these events could be of natural origin human induced); 2.5. Proposed sites for nuclear installations shall be evaluated with region the frequency and severity of external number and human induced events and 	Wording of "external events" in Sec.2.1.(a) and "external natural and human induced events" in	This is consistent as external events includes both external natural events and human induced events	
USA 1	2.5	Modify paragraph to read: Proposed sites for nuclear installations shall be evaluated with regard to the frequency and severity of external natural and human induced events. Causality and likelihood shall be considered when postulating concurrent hazards that could affect the safety of the installation.	The sentence as constructed is not clear. As written, I think it makes a user evaluate every "co-occurrence" of external natural events and human induced events. Some of these co-occurrences will be remote (e.g. an aircraft crash co-occurring with a tsunami). Some text needs to be added to limit the investigation to ones that are credible to consider. Also, "co-occurrence" seems awkward; consider "concurrent events." Proposed words use concepts and wording consistent with SSR 2-1 Requirement 17.	OK. See comment from Canada	
Canada	2.5 and 2.5b	2.5 Proposed sites for nuclear installations shall be evaluated with regard to the frequency and severity of external natural and human induced events and their co-occurrences that could affect the safety of the installation.	The change to "their cooccurences" is not clear. Suggest using a clearer terminology: For example: 2.5 Proposed sites for nuclear installations shall be evaluated with regard to the frequency and severity of external natural and human	X	

Comment resolu	tion table draft 1, 7	June 2013					
		New paragraph after 2.5:	induced events and credible combinations of these events that could affect the safety of the installation.				
USA 2	2.5a and b	implications shall be evaluated. Modify paragraph to read:	Need to include risk (or	X			
		 2.5. Proposed sites for nuclear installations shall be evaluated with regard to the frequency and severity of external natural and human induced events and their cooccurrences that could affect the safety of the installation. 2.5a From the characterization of the hazards resulting from the external events: The frequency and severity information regarding hazards and risk consequence shall be used in establishing the design basis hazard level for the nuclear installation" Account shall be taken of uncertainties in the design basis hazard level; and The assessment level hazard to meet safety margins objectives shall be established for the installation. 2.5b Site specific design and safety assessment parameters shall be periodically evaluated based on lessons learned, updated information, updated technologies knowledge-and methodologies, and their safety implications shall be evaluated. 	hazard) consequence, as severity may not appropriately reflect magnitude of hazard or risk consequence. • Lessons learned based on events or operational experiences are important in the periodic assessment of safety. • Updated technologies need to be included, as certain technologies used can be superseded.	2.5a covered below in the table.	n		
Argentina	2.5 and 2.5b	2.5 Proposed sites for nuclear installation	IS		X		
		shall be evaluated with regard to the				necessarily	

Comment	resolution table draft 1							
JAPAN WASSC	2.5b	frequency and severity of external natand human induced events and their simultaneous occurences that could a safety of the installation. New paragraph after 2.5: 2.5b Site specific design and safety asseparameters shall be periodically evaluated based on the updated information, known advancement, technology and methodo and their safety implications shall be experienced based on the updated information known advancement and their safety implications shall be experienced based on the updated information knowledge and methodologies. Their implications shall be evaluated.	Essment ed vledge logies aluated. Sesment uated mation, safety 2)To enhance understanding of the valuated of the valuated and the valuated are understanding of the valuated and the valuated are valuated and valuated and valuated are valuated and valuated are valuated and valuated and valuated and valuated and valuated are valuated and valuated and valuated and valuated are valuated and valuated and valuated are valuated and valuated and valuated are valuated and valuated are valuated and valuated and valuated are valuated and valuated and valuated are valuated and valuated and valuated and valuated are valuated and valuate	be ved"?		X	simultaneous. This can also be events in sequence Here methodology is more appropriate than technology The title of NS-R-3 is about site evaluation	
			article					
Lessons		the nuclear installation are	Modify paragraph 3.55:					No Change
learned	unacceptable and no p shall be deemed unsuit	racticable solution is available, the site	If the hazards for the nuclear i	installation	are unacceptable	and	Modify paragraph 3.55:	
8.1	shan be deemed unsur	lable	solution is available for protect	ction of the	nuclear installati	ion w		
			margins, the site shall be deer	ned unsuita	ble or no longer	suital	ble.	If the hazards for the nuclear installation are unacceptable and no practicable solution is available for protection of the nuclear installation with sufficient safety margins, the site shall be deemed unsuitable or no longer suitable.
Finland	2.2 and 3.47	For consistency with 3.55		X				2.2. If the site evaluation for the three aspects cited indicates that the
1		Add at the end of 2.2						site is unacceptable and the deficiencies cannot be compensated for by means of design features, measures for site protection or administrative
		or no longer suitable.						procedures, the site shall be deemed unsuitable or no longer suitable.
		Add at the end of 3.47						This applies also to 2.25, 2.28, 3.36, 3.40, 3.47, 3.50, 3.51 and 3.55
		or no longer suitable.						
Germany	2.2	"If the site evaluation for the three	Clarification and consistence	y X				†
WASSC	2.20	aspects cited indicates that the site is	with the wording in Para 3.	55				
	3.36	unacceptable and the deficiencies cannot be compensated for by mean	is recommended.					
	3.40	of design features, measures for site						
	3.47	protection or administrative procedures, the site shall be deemed						
	0.1.	unsuitable or no longer suitable."						
		Implement the same changes in 3.36, 3.40 and 3.47						
Japan	3.51	If the effects of such phenomena	Completeness.	X				
		and occurrences would produce an unacceptable hazard and if no						

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		practicable solution is available, the site shall be deemed unsuitable or no longer suitable.						
Japan	3.55	If the hazards for the nuclear installation are unacceptable and no practicable solution is available for protection of the nuclear installation with adequate sufficient safety margins, the site shall be deemed unsuitable or no longer suitable.	Clarification. It is unclear to include sufficient safety margins for site evaluation. The same comment in SSR-2/1 para 5.29(d).			х	To be adequate, they would need to be sufficient	
Lessons learned 10.1			New paragraph after 2.13 2.13a For assessing the feasibility all nuclear installations to be instal					2.13. For nuclear power plants, the total nuclear capacity to be installed on the site shallould be determined as far as possible at the first stages of the siting process. If it is proposed that the installed nuclear capacity isbe significantly increased to a level greater than that previously determined to be acceptable, the suitability of the site shall be re-evaluated, as appropriate. New paragraph after 2.13 2.13a For assessing the feasibility of the implementation of the emergency plans, all nuclear installations to be installed on the site shall be considered.
Argentina	2.13a	2.13a For assessing the feasibility implementation of the emergency pl nuclear installations to be installed same site shall be considered. Similar site where there are nuclear installational tleast a new one is intended to be (in line with the following para)	ans, all on the ly, for a ons and erected.		X Covered by the currently proposed text		Also THE site means the same site	
Japan	2.13 Modification not initially proposed by the Secretariat	For nuclear power plants, the total nuclear capacity to be installed on the site sho shall be determined as far as possible a first stages of the siting process. If it is proposed that the installed nuclear cap be is significantly increased to a level than that previously determined to be acceptable, the suitability of the site shall re-evaluated, as appropriate.	at the solution are the pacity greater article.	X	Shall already covered above in the table			

Japan	2.13a	For assessing the feasibility of the implementation of the emergency plans nuclear installations to be installed on t site shall should be considered as far as possible.	he	X	"Consider' de facto means "as far as possible"	
Canada	2.13a	2.13a For assessing the feasibility of implementation of the emergency planuclear installations to be installed of site shall be considered.	ans, all specify new or	X	2.13 also use "to be installed"	
Lessons learned 10.1	(including installar which flammable, or radioactive mate and otherwise deal accident condition installation. This is installations that me that could affect the potential effects of currents in the gro inlets by debris sha such phenomena a unacceptable hazar	tions within the site boundary) in explosive, asphyxiant, toxic, corrosive erials are stored, processed, transported at with that, if released under normal or s, could jeopardize the safety of the investigation shall also include any give rise to missiles of any type are safety of the nuclear installation. The felectromagnetic interference, eddy and and the clogging of air or water	Modify existing para 3.51 3.51. The region shall be investigated within the site boundary, including concerning explosive, asphyxiant, toxic, corrost processed, transported and otherwise of accident conditions, could jeopardition investigation shall also include installative that could affect the safety of the electromagnetic interference, eddy currous water inlets by debris shall also be evaluated as the site shall be deemed unsurance available, the site shall be deemed unsurance.	ollocated NPP units) in ive or radioactive madealt with that, if release the safety of the ations that may give risuluclear installation. The rents in the ground and the luated. If the effects of stable hazard and if no p	n which flammable, aterials are stored, sed under normal or e installation. This e to missiles of any e potential effects of the clogging of air or such phenomena and racticable solution is	Modify existing para 3.51 3.51. The region shall be investigated for installations (including installations within the site boundary, such asincluding collocated NPP units) in which flammable, explosive, asphyxiant, toxic, corrosive or radioactive materials are stored, processed, transported and otherwise dealt with that, if released under normal or accident conditions, could jeopardize the safety of the installation. This investigation shall also include installations that may give rise to missiles of any type that could affect the safety of the nuclear installation. The potential effects of electromagnetic interference, eddy currents in the ground and the clogging of air or water inlets by debris shall also be evaluated. If the effects of such phenomena and occurrences would produce an unacceptable hazard and if no practicable solution is available, the site shall be deemed unsuitable or no longer suitable.
Argentina		3.51. The region shall be investigated installations (including installations wi the site boundary, including collocate NPP units) in which flammable, explos asphyxiate, toxic, corrosive or radioact materials are stored, processed, transpo and otherwise dealt with that, if releasunder normal or accident conditions, conject jeopardize the safety of the installation. This investigation shall also include installations that may give rise to miss of any type that could affect the safety the nuclear installation. The potential effects of electromagnetic interference eddy currents in the ground and the	thin ed sive, tive orted sed ould on. e iles of of al	X	Asphyxiate is a verb. Asphyxiant is correct	

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		clogging of air or water inlets by debris shall also be evaluated. If the effects of such phenomena and occurrences would produce an unacceptable hazard and if no practicable solution is available, the site shall be deemed unsuitable. Reflexion: for a Requirement this list seems too comprehensive and more appropriate for a dedicated Safety Guide.				True indeed, but this current version was not submitted for comment	
France 5	3.51	3.51. The region shall be investigated for installations (including installations within the site boundary, including collocated NPP units nuclear installations) in which flammable, explosive, asphyxiant, toxic, corrosive or radioactive materials are stored, processed, transported and otherwise dealt with that, if released under normal or accident conditions, could jeopardize the safety of the installation.	To avoid focusing on NPPs only.			X but this would be a duplication of the mention of co- located installations	
Japan	3.51	The region shall be investigated for installations (including installations including and collocated NPP units within the site boundary) in which flammable, explosive, asphyxiant, toxic, corrosive or radioactive materials are stored, processed, transported and otherwise dealt with that, if released under normal or accident conditions, could jeopardize the safety of the installation	Clarification. Relationship between 'including installations' and 'including_collocated NPP units' is complicated and unclear.			X And doesn't' work as" installations" would include NPP	
Germany WASSC	3.51	1st sentence: "The region shall be investigated for installations (including installations within the site boundary, including or collocated NPP units within the site boundary) in which flammable, explosive, asphyxiant, toxic, corrosive or radioactive materials are stored, processed, transported and otherwise dealt with" last sentence: "If the effects of such phenomena and	Simplify wording.		Already	X The term installations includes NPP	
		occurrences would produce an unacceptable hazard and if no practicable solution is available, the site shall be deemed unsuitable or no longer suitable."	See our related comment on Para 2.2.	X	Already addressed above		

	tresoluti	ion table draft 1, 7								
Canada		3.51 first	The region shall be investigated for		The second instance of		OK. This avoids			
		sentence	installations (including installations w	ithin 1	the word "including"		using twice			
			the site boundary, including such as		does not make sense in		"including"			
			collocated NPP units) in which							
			conocated NPP units) in which		the first sentence.					
					Suggest replacing with					
				4	'such as''					
Lessons	2.7. T	he hazards associ	ated with external events that are	Modify	existing paragraph 2.7:					Modify existing paragraph 2.7:
learned	to be o	considered in the	design of the nuclear installation							
	shall be determined. For an external event (or a				e hazards associated with ex					
10.1 &			the parameters and the values of		of the nuclear installation and					in the design of the nuclear installation and for its safety assessment shall
11.1			re used to characterize the hazards		external event (or a combinat					be determined. For an external event (or a combination of events) the
d	_		at they can be used easily in the		arameters that are used to ch					parameters and the values of those parameters that are used to characterize
П		of the installatio	•	•	nn be used easily in the c	iesign	of the install	iauon	and for its safety	the hazards shallould be chosen so that they can be used easily in the
	uesigi	i oi tile ilistaliatio	111.	assessn	ient.					design of the installation and for its safety assessment.
				Modify	existing paragraph 3.21:					Modify existing paragraph 3.21:
				3.21. T	he hazards for the site due	to flo	oding shall be	derive	ed based on suitable	3.21. The hazards for the site due to flooding shall be derived <u>frombased</u>
			ne site due to flooding shall be		e-models.		-			on suitable from the models.
	-1	d from the model								
Argentin	a	2.7 and 3.21	2.7. The hazards associated with					X	Identified would	
			events that are to be considered in the						be restricted to the	
1			of the nuclear installation and for it						nature.	
			assessment shall be identified determine						Determined includes the	
			an external event (or a combinal events) the parameters and the variations						notion of level	
			those parameters that are used to char						notion of level	
			the hazards should be chosen so that t							
			be used easily in the design of the inst							
			and for its safety assessment.							
			Modify existing paragraph 3.21:							
			3.21. The hazards for the site due to the							
			shall be derived based on suitable f	rom the		X	"from			
			models.				suitable			
							models"			
Japan W	VASSC	2.7	The hazards associated with	external	Clarification			X	The verb	
3			events that are to be considered	in the					"consider" also	
			design of the nuclear installation and						applies for safety	
			safety assessment shall be determined						assessment	
			its safety assessment.							
Japan W	VASSC	3.21	The hazards for the site due to	_	Clarification			X		
4			shall be derived based on suital	ble the						
			model appropriately.							
USA 3		3.21	Add "s" at the end of model		Editorial. The actual	X	Included in			
			The state of the of the original state of th		document does not		the master			
					match the table of		version of			
							the file for			
					changes, and the "s"		the next			
					needs to be added for it					

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			to read properly.		step in the process			
Lessons			New paragraph after 2.5.					New paragraph after 2.5.
learned 12.1			 2.5a From the characterization of The frequency and severity in basis hazard level for the nuc Account shall be taken of un The assessment level hazard for the installation. 	nforma lear in certain	ation shall be used in e istallation; ities in the design basis	estab s haz	lishing the design zard level; and	 2.5a From the characterization of the hazards resulting from the external events: The frequency and the severity information shall be used in establishing the design basis hazard level for the nuclear installation; Account shall be taken of uncertainties in the design basis hazard level; and The assessment level hazard to meet safety margins objectives shall be established for the installation. A hazard level, significantly higher than the design basis hazard level, shall be establish for the assessment of the safety margin of the installation against the required safety margin.
Poland 1.	Addendum to NS-R-3 New paragraph after 2.5.	 2.5a From the characterization of the hazards resulting from the external events: The frequency and severity information shall be used in establishing the design basis hazard level for the nuclear installation; Account shall be taken of uncertainties in the design basis hazard level; and The assessment level hazard to meet safety margins objectives shall be established for the installation. 	The wording "The assessment level hazard" is unclear. It should be defined / clarified somehow.		X			
Argentina	2.5a	 2.5a From the characterization of the hazards resulting from the external events: The frequency and the severity of the effects information shall be used in establishing the design basis hazard level for the nuclear installation; Account shall be taken of uncertainties in the design basis hazard level; and The assessment level hazard to meet safety margins objectives shall be established for the installation. Multi-unit sites should also be considered. 		X		X	Why at this stage of hazards characterization?	
France 6	2.5a	2.5a From the characterization of the hazards resulting from the external events:	Clarification Proposed bullet is unclear. The wording should be		Х			

Comment resolut	ion table draft 1, 7							
		 The frequency and severity information shall be used in establishing the design basis hazard level for the nuclear installation; Account shall be taken of uncertainties in the for the determination of design basis hazard level; and Potential for exceeding the design basis hazard level shall be investigated to determine whether additional safety margins shall be included in the design of the nuclear installation The assessment level hazard to meet safety margins objectives shall be established for the installation. 	focused on consideration of beyond design basis event and adequate safety margin/avoidance of cliff edge close to the design basis					
Finland	2.5 a		The sentence is not clear. What is meant with assessment level hazard? The term should be defined.	X				
Japan WASSC 1	2.5 a	The assessment level hazard to meet safety margins objectives shall be established for the installation.	Comment The wording "The assessment level hazard" and "safety margins objectives" should be added some explanation.	X				
Japan	2.5a	From the characterization of the hazards resulting from the external events: • The causality and likelihood frequency and severity information shall be used in establishing the design basis hazard level for the nuclear installation; • Account shall be taken of uncertainties in the design basis hazard level; and • The assessment level hazard to meet safety margins objectives shall be established for the installation.	For 5.21 in the SSR-2/1, adding "Causality and likelihood shall be considered in postulating potential concurrent events" is proposed. If the term "frequency" in the proposed sentence shown left is supposed to mean "likelihood" in 5.21 in the SSR-2/1, the same word should be used to keep a consistency between both requirements. If not, i.e. the proposed sentence requires "frequency" not "likelihood" in a clear manner, its reason concerning to different degree		X	Frequency is appropriate here and is different from likelihood Moreover this paragraph is not only for concurrent events		

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			to be required should be clarified. Generally speaking, we cannot say that an uncertainty of frequency evaluation for external events is not always smaller than that for postulated events stated in 5.21. Therefore, if "likelihood" is acceptable in 5.21 as a requirement, it is not logical that "frequency" is required, i.e. "likelihood" is unacceptable for external events in the proposed text. Thus, a term should be selected very carefully to keep consistency with requirements in related other IAEA documents. If the term "severity" in the proposed sentence shown left is supposed to mean "causality" in 5.21 in the SSR-2/1, the same word should be used. If not, a difference between "severity" and "causality" should be clarified.				
Japan	2.5a	From the characterization of the hazards resulting from the external events: • The causality and likelihood frequency and severity information shall be used in establishing the design basis hazard level for the nuclear installation; • Account shall be taken of uncertainties in the design basis hazard level; and • The assessment level hazard to meet safety margins objectives shall be established for the installation.	Clarification for "design basis hazard" and "assessment level hazard" Both the IAEA safety glossary and NS-R-3 do not provide definitions of "design basis hazard" and "assessment level hazard." Therefore, those definitions must be provided clearly. Otherwise, readers of the documents cannot understand difference between "design basis hazard" and "assessment level hazard."		X	See above	
USA 2	2.5a and b	Modify paragraph to read: 2.5. Proposed sites for nuclear installations shall be evaluated	Need to include risk (or hazard) consequence, as severity may not appropriately reflect				

Comment resolut	ion table draft 1, 7							
		with regard to the frequency and severity of external natural and human induced events and their co-occurrences that could affect the safety of the installation. 2.5a From the characterization of the hazards resulting from the external events: • The frequency and severity information regarding hazards and risk consequence shall be used in establishing the design basis hazard level for the nuclear installation. • Account shall be taken of uncertainties in the design basis hazard level; and • The assessment level hazard to meet safety margins objectives shall be established for the installation.	 magnitude of hazard or risk consequence. Lessons learned based on events or operational experiences are important in the periodic assessment of safety. Updated technologies need to be included, as certain technologies used can be superseded. 		X But here we mean the relationship between the frequency and the severity			
		2.5b Site specific design and safety assessment parameters shall be periodically evaluated based on lessons learned, updated information, updated technologies knowledge-and methodologies, and their safety implications shall be evaluated.		X	2.5 b addressed above in this table			
ENISS	2.5a	From the characterization of the hazards resulting from the external events: The frequency and severity information shall be used in establishing the design basis hazard level for the nuclear installation; Account shall be taken of uncertainties in the design basis hazard level; and The assessment level hazard to meet safety margins	The third bullet is not clear and should be deleted.	X				

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		objectives shall be established for								
		the installation.								
WNA	2.5a	The An assessment of the hazard			X					
		levels hazard to meet safety	third bullet is hard to							
		margin s objectives shall be	understand and awkward. It							
		established for the installation.	is suggest to reword as							
			indicated.							