COMMENTS ON DS 432 "Generic Criteria for the Radiation Protection of the Public and the Environment"

	COMMENTS BY REVIEWER				RESOLUTION				
Reviewer: I	O.S. Rana (Member,	Page of							
Country/Or	ganization: India		Date: 22-06-09						
Comment	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but	Rejected	Reason for		
No.					modified as		modification/rejection		
					follows				
1.	General		Comment:						
			It is understood from the						
			content of DPP is that the						
			emphasis is on `Protection of						
			the Environment'. However,						
			from the proposed table of						
			content it is not clear how this						
			aspect will be covered in the						
			safety guide. Also, it is not						
			clear if the extent of						
			environment (water, air,						
			biosphere, geological etc.)						
			would be covered in the						
			document. These need to be						
			resolved.						

Title: DS432DPP Generic criteria for the radiation protection of the public and the environment

COMMENTS BY REVIEWER					RESOLUTION				
Reviewer:	Kumazawa, H	ayashida, Nakata	Page 1 of						
Country/Organization: Japan/ JNES Date: 16 Sept. 2009									
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modif./rejection		
1	2.	and medical exposure of patients.	As defined in ICRP Publ.						
	Para4/Line2	or	103(2007)						
	Page 1	and medical exposure of patients, including comforters & carers, and volunteers in biomedical research.							
2	2. Para4/Line3 Page 1	is covered in many general and 'facilities and activities specific' Safety Guides.	Because of stressing one phrase "facilities and activities specific."						
3	2. Para6/Line2 Page 2	Optimization of protection in all exposure situations (the same above).	Because of clarifying it.						
4	4. Para1/Line4 -5 Page 2	While mention is normally made of the basic principles of optimization of protection, under dose constraint, and dose limitation for practice, the guidance often stops at that.	Because of clarifying the meaning of constraint and dose limitation.						
5	ANNEX 2. framework	a. Exposure situations b. Biological Aspects c. Dosimetric Quantities d. Dose Assessment	Because of the necessity to explain the foundation of quantity "dose" relating to the detriments to the public and the environment at risk of radiation exposure.						

Generic Criteria for the Radiation Protection of the Public and the Environment (DS432)

COMMENTS BY REVIEWER				RESOLUTION				
Reviewer: Page 1 of 1 Country/Organization: Japan/NISA								
Date: June	~	apail (1871						
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection	
1	General	We agree with our US colleague's comments No.3 and No.4.						
2	General	Define clearly "individual" and "public".	These definitions are essential to understanding the contents of DS432.					
3	General	Take into account not only the direct exposure pathway but also the indirect pathway.	In the context of radioactive waste disposal, the exposure pathway to the public and environment is indirect. In addition that exposure pathway has a greater dispersion zone and uncertainty due to long term timeframe.					

DPP 432 (Generic Criteria for the Radiation Protection of the Public and the Environment)

COMMENTS BY REVIEWER

Reviewer : KIRYU Yasuo

Page.... of....

Country/Organization: Japan /MEXT(Ministry of Education, Culture, Sports, Science and Technology)

Date:

Comment No.	Para/Line No.	Comment/ Proposed new text	Reason
1.	General	There is not an apparent need for the proposed document.	Generic matters are discussed in BSS. Further details should be given in application-specific or facility-specific Safety Guides. "Generic" Safety Guides could be verbose and disregarded unless it is aimed at developing useful tools such as the categorization of sources.
2.	General	It would be better to focus on the public only, because it is necessary to discuss on the protection of the environment more and more.	

3.	General	Control of public radiation exposures from all sources needs to be balanced, especially between the nuclear industry and the non-nuclear industry.	The BSS contains the requirements regarding public exposures from the nuclear industry that is more stringent than ones for the non-nuclear industry. For example, the dose constraints for public exposures from the nuclear industry are required to be set below 1mSv/y, though the reference level for public exposures from non-nuclear industry can range from 1 to 20mSv/y.
4.	2. BACKGROUN D/RATIONALE (page 2)	The description on "Dose limitation" should be added as one of the three key principles of radiological protection in planned exposure situations.	ICRP Pub.103 says, "the three key principles of radiological protection are retained in the revised Recommendations" in EXECTIVE SUMMARY. Also, these key principles, i.e. Justification, Optimization and Dose limitation, are described in "3. PLANNED EXPOSURE SITUATIOS" of BSS draft 2.0.
5.	Page 2.	The following are some of the main topics of generic nature: · Justification in all exposure situations (planned, emergency, existing); · Optimization of protection in all exposure situations; · Dose limit in planned exposure situations; · Dose and risk constraints in planned exposure situations at design and planning stages; · Role of reference levels in emergency and existing exposure situations; · Representative person in all exposure situations; These concepts will be expressed in practical terms.	The intention of this Safety Guide to underpin the specific guidance on the application of the Safety Principles of SF-1 as given in section 5. The three significant principles of radiological protection, justification, optimization and dose limit should be addressed in this safety guide as well as in SF-1 with higher priority than the roles of dose or risk constraints and reference levels.

6.	Annex	Proposed new Chapter 2 is as follows:	
		Pramework for Protection of Public and Environment a. <u>Definition of a source</u> b. <u>Identification of the exposed individuals</u> c. <u>Reference animals and plants</u> d. Exposure situations e. Dosimetric quantities d. Dose assessment	The concepts of "a source", "individuals of the public" and "reference biota" are the key elements for this document, and should be discussed in this chapter.

TITLE: DS432 (DPP) Safety Guide - Generic Criteria for Radiation Protection of the Public and the Environment

		COMMENTS BY REVIEWER		RESOLUTION				
	Contact: Boby	, and the second						
Country/Or	ganization: U							
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/re jection	
1	General	The document should initiate its rationale discussion using DS379 three categories of exposure situations; namely, planned, emergency, and existing exposure situations (DS379 V2.0). Radiation protection principles concerning the public depend to large extent on these situations or circumstances. For example, public protection under an emergency situation may differ than protection from radiation associated with planned licensed activity. Therefore, the document should be structured based on the BSS categories of exposure situation.	Consistency and harmony with the BSS (DS379 V 2.0)					
2	General	The topics presented overlap with DS379. Therefore, the document, when developed, should avoid redundancies and duplications with key safety documents dealing extensively with public protection (e.g.; DS379).	Avoid redundancy and duplications with existing standards.					
3	General	 The DPP provided a list of the main topics of generic nature, including: Justification in all exposure situations (planned, emergency, existing); Optimization of protection in all exposure situations; Dose and risk constraints in planned exposure situations at design and planning stages; Role of reference levels in emergency and existing exposure situations; Representative person in all exposure situations; The above list of main topics dealt mainly with human and public exposure. These topics did not specifically address environmental protection issues. 	Justification of the TitleProtection of the Public and the Environment;" is missing. There no apparent justification of having the second part of the title.					

	COMMENTS BY REVIEWER					RESOLUTION			
Reviewer: Contact: Boby Abu-Eid Page 2 of			f 2						
Country/Or	ganization: US	SA/WASSC Date: Jur	ne 11, 2009						
Comment	Para/Line	Proposed new text	Reason	Accepted	Accepted,	Rejected	Reason for		
No.	No.				but modified as follows		modification/re jection		
4	General	The current title of the document includes "protection of the environment." This topic should be dealt with under a separate guidance or by updating existing guidance documents. Environmental protection topic could be extensive if it is intended to deal with protection of surface water, groundwater, biota, and reduction of ecological risks. Alternately, the guidance may address the issue of environmental protection assurance through protection of the human and the public.	The topic "Protection of the Environment deals with more extensive and complex issues that need to be addressed under a separate guidance or through update of existing IAEA guidance.						