The Handling of Timescales in Assessing Post-closure Safety of Deep Geological Repositories

Workshop Proceedings Paris, France 16-18 April 2002

Hosted by The French Institute for Radiological Protection and Nuclear Safety (IRSN)

TABLE OF CONTENTS

Forewo	ord	
Part A:	: Syr	nthesis of the workshop7
Part B:	Wo	rking groups contributions
	A.	The different timescales <i>versus</i> the regulatory framework and public acceptance
	B.	Barrier and system performances within a safety case: their functioning and evolution with time
	C.	The role and limitations of modelling in assessing post-closure safety at different times
	D.	The relative value of safety and performance indicators and qualitative arguments in different time frames
Part C: Compilation of workshop papers		
	Som	Yearsley, T.J. Sumerling ne questions on the use of long timescales for radioactive waste osal safety assessments
	L. Bailey, A. Littleboy An approach to handling timescales in post-closure safety assessments	
	<i>E. Ruokola</i> Consideration of timescales in the Finnish safety regulations for spent fuel disposal	
	Han	<i>Rohlig, D. Gay,</i> dling of timescales in safety assessemnts of geological disposal: RSN-GRS standpoint on the possible role of regulatory guidance

PartE	: List of participants	15
Part D	: Agenda	9
	<i>B. Batandjieva, K. Hioki, P. Metcalf</i> IAEA activities related to safety indicators, time frames and reference scenarios19	1
	<i>R. Storck, D.A. Becker</i> The spin project: safety and performance indicators in different time frames	1
	S. Edvardsson, K.G. Karlsson Long scale astronomical variations in our solar system: consequences for future ice ages	3
	G. Ouzounian Phenomenology dependent timescales	1
	A. Hedin Treatment of barrier evolution: the SKB perspective	5
	<i>P. De Prefer, Ph. Lalieux</i>Fulfilment of the long-term safety functions by the different barriers during the main time frames after repository closure	9
	<i>M. Jensen</i>1 000 years of safety timescales and radiation protection regulations	5
	 <i>N.A. Chapman</i> Long timescales, low risks: rational containment objectives that account for ethics, resources, feasibility and public expectations - some thoughts to provoke discussion 	.5
	<i>M. Ranft, J. Wollrath</i> Timescales in the long-term safety assessment of the Morsleben repository, Germany	5
	L. Griffault, E. Fillion Handling of timescales and related safety indicators	3
	H. Umeki, P.A. Smith Handling of timescales: application of safety indicators	1
	J. W. Schneider, P. Zuidema, P.A. Smith Handling of timescales in safety assessements: the Swiss perspective	1