The IAEA's Programme on Environmental Modelling for RAdiation Safety (EMRAS II)

EMRAS II

Reference Approaches for Human Dose Assessment Working Group 3 Reference Models for "Waste Disposal"

MINUTES

of the Fifth WG3 Meeting held in Baden, Switzerland 21–23 September 2011

IAEA Scientific Secretary	Working Group Leader
Mr Gerhard Proehl (GP)	
Head, Assessment & Management of Environmental Releases	Mr Tobias Lindborg (TL)
Unit, Waste & Environmental Safety Section (Room B0765)	Biosphere Safety Assessment Manager, Safety & Analysis
Division of Radiation, Transport & Waste Safety	Swedish Nuclear Fuel & Waste Management Company (SKB)
International Atomic Energy Agency (IAEA)	Blekholmstorget 30
Vienna International Centre	Box 250
PO Box 100	10 124 STOCKHOLM
1400 VIENNA	SWEDEN
AUSTRIA	Tel: +46 (8) 459-8407
Tel: +43 (1) 2600-22854	Fax: +46 (8) 661-5719
Fax: +43 (1) 26007-22692	Email: tobias.lindborg(x)skb.se
Email: G.Proehl(x)iaea.org	

Others Attending		
Name / Initials* / Email	Organization / Country	
Mr Sten Berglund (SB) (sten.berglund(x)skb.se)	Swedish Nuclear Fuel & Waste Management Company (SKB), SWEDEN	
Mr Ari T.K. Ikonen (AI) (ari.ikonen(x)posiva.fi)	Posiva Oy, FINLAND	
Mr Ulrik Kautsky (<i>UK</i>) (ulrik.kautsky(x)skb.se)	Swedish Nuclear Fuel & Waste Management Company (SKB), SWEDEN	
Mr Sven Keesmann (SK) (sven.keesmann(x)nagra.ch)	National Cooperative for the Disposal of Radioactive Waste (NAGRA), SWITZERLAND	
Mr Ryk Klos (<i>RK</i>) (ryk(x)blueyonder.co.uk)	Aleksandria Sciences, UNITED KINGDOM	
Ms Maria Nordén (MN) (maria.norden(x)ssm.se)	Swedish Radiation Safety Authority (SSM), SWEDEN	
Ms Natalia Semioschkina (NS) (semi(x)helmholtz-muenchen.de)	Helmholtz-Zentrum München GmbH, GERMANY	
Mr Christian Staudt (CS) (christian.staudt(x)helmholtz-muenchen.de)	Helmholtz-Zentrum München GmbH, GERMANY	
Mr Shulan Xu (SX) (shulan.xu(x)ssm.se)	Swedish Radiation Safety Authority (SSM), SWEDEN	
Mr Danyl Pérez-Sánchez (<i>DPS</i>) (d.perez(x)ciemat.es)	CIEMAT, SPAIN	

^{*}Initials used to refer to participants within minutes and actions as appropriate.

Objectives and content of the meeting

The objectives of the meeting were to present and discuss the work done and to develop and decide upon the tasks leading to the production of a final WG3 report.

TL began by welcoming the participants and presenting the agenda. Some minor changes were made and three additional presentations by **SK**, **TL** and **AI** were added. The main WG3 work plan was presented and the general time line was discussed.

Presentation of NAGRA programme (hosting organisation)

SK presented the NAGRA programme, including the method and site selection strategy. The biosphere programme was described in an environmental change (*Biosphere Assessment within the Context of Disposal of Radioactive Waste in Switzerland, Aspects of Dealing with Environmental Change).

Presentations of progress in subgroups

The subgroups presented the work done and the results obtained

Other presentations and discussion

AI presented the results from a shore line displacement workshop held in Finland 2010.

TL described the status in the Swedish Greenland Analogue Surface Project. The project is providing analogue information for conditions which may pertain in future at the Forsmark site of interest to SKB, as well as the dynamics of surface and near-surface processes. The project will run until 2015 and is expected to produce a number of scientific papers.

Subgroup workshop and presentations

During the second day of the meeting the subgroups worked separately. The outcome of this work was presented on day three and discussions were held after each presentation on issues related to integration between the subgroups.

Time table for WG3 second draft report preparation

- 31 October 2011: Subgroups deliver report contributions to GS.
- 30 November 2011: Draft report sent out to project members for first internal review.
- 20 December 2011: Return of review comments to GS.
- 20 January 2012: Revised report distributed to project members.
- 26 March 2012: Final report delivered to IAEA.

Next meeting

There is no planned final meeting of EMRAS II as was originally anticipated.

The follow-up programme to EMRAS II – "MODARIA" <u>MO</u>delling and <u>DA</u>ta for <u>R</u>adiological <u>I</u>mpact <u>A</u>ssessments – will run for 4 years (2012–2015) and the first Technical Meeting will take place at IAEA headquarters in Vienna, 19–22 November 2012.

Indicates the name of the presentation given on the WG3 web page (http://www-ns.iaea.org/projects/emras/emras2/working-groups/working-group-three.asp?s=8).

WG3 MEETING AGENDA				
Wednesday, 21 September 2011				
09:00–09:15	Opening of the Meeting and Introductions	Tobias Lindborg, WGL (SKB, Sweden)		
09:15-09:30	Review of Meeting Objectives and Preliminary Agenda			
00.20 10.20	Presentations and Discussion of Progress with Subgroup (SG) Activities			
09:30–10:30	SG1 Analogue Approach	*Christian Kaiser (Helmholtz- Zentrum, Germany)		
10:30-11:00	COFFEE BREAK			
11:00–12:30	SG2 Soil-Plant Processes (Results were provided by SCK/CEN, HMGU and SSM)	Shulan Xu (SSM, Sweden) & Ryk Klos (Aleksandria Sciences, UK)		
12:30-13:30	LUNCH BREAK			
13:30–15:00	SG3 Dynamic analysis of future biosphere systems at specific sites	Sten Berglund (SKB, Sweden)		
15:00-15:30	COFFEE BREAK			
15:30–16:00	SG4 Demonstrating compliance with protection objectives	Maria Nordén (SSM, Sweden)		
16:00–17:00	Discussion of Cross-cutting Issues and Opportunity to Present New Information	All participants		

Thursday, 22 September 2011		
09:00–16:30	Subgroup Work	A 11 montioning and a
16:30–17:00	Plenary Presentation of Key Issues from Subgroup Work	All participants

Friday, 23 September 2011		
09:00–10:30	Discussion of Integration and Synthesis of Subgroup Activities	All participants
10:30-11:00	COFFEE BREAK	
11:00–12:30	Development of Work Plan to Achieve a Draft Final WG3 Document	All participants
12:30-14:00	LUNCH BREAK	
14.00 onwards	Opportunities for continuing discussions, as required until Meeting Close	All participants

^{*} Presentation submitted, but participant absent from the meeting.