ADMLC Workshop 12 March 2020

<u>Challenges in modelling for emergency planning and response to contaminant releases</u>

Centre for Chemical, Radiation and Environmental Hazards (CRCE) Training Centre, Public Health England, Harwell Campus, Didcot, Oxford, OX11 ORQ, UK

Agenda v3

9:30	Registration and coffee	
10:00	ADMLC Chairman's welcome	Simon Gant (HSE)
10:10	Introduction – modelling perspectives The role of atmospheric dispersion modelling in planning, preparedness, response and recovery - a science perspective	Matthew Hort (Met Office)
10:30	Perspectives on emergencies involving atmospheric releases Key issues/challenges/requirements of government/SAGE for planning and response	Robin Grimes (Chief Scientist MoD)
10:55	SESSION 1: RESPONSE MODELLING Examples of issues, including key uncertainties, in response modelling	
10:55	The application of atmospheric dispersion modelling for the provision of health protection advice in the event of a radiological incident	Pete Bedwell (PHE) & Sarah Millington (Met Office)
11:15	The practical use of models during the emergency response to chemical incidents and fires	James Stewart- Evans (PHE)
11:35	Responding to volcanic eruptions	Claire Witham (Met Office)
11:55	 Discussion: RESPONSE - similarities and differences between different contaminants Is there a consistent approach in response modelling across contaminants? What challenges are shared (e.g. uncertainties, sensitivities, lack of data, time frames)? What differences arise due to contaminant specifics? 	

12:20 LUNCH

13:05 SESSION 2: MODELLING in PLANNING and PREPAREDNESS

13:05 Outline of approaches in the National Risk Register and Resilience Direct

The role of science in the development of the National Security Risk Assessment (NSRA) - How the Government Office for Science feeds into the development of the NSRA, and uses the product in assessing departmental capability gaps and planning exercises Matthew Hort (MetOffice)

13:25 What is the reasonable worst case?

Jonathan Rougier (Rougier Consulting)

13:45 REPPIR approach to consequence assessment and associated risk framework

Chris Boyd (ONR)

14:05 How dispersion modelling informs public safety decision making for risks presented by major hazards installations

Harvey Tucker (HSE)

- 14:25 Discussion: PLANNING & PREPAREDNESS similarities and differences
 - What challenges are shared (e.g. uncertainties, sensitivities, lack of data, time frames)
 - O What differences arise due to contaminant specifics?
 - Does planning adopt a consistent approach to risk mitigation across contaminants?

14:50 TEA

Topics for discussion in the final session will be shown at the end of the previous session, and will be on notice boards available during the tea break, together with post-its and pens for participants to add their thoughts on the different topics – these will be briefly summarised in the next session

15:10 Discussion: Conclusions on key topics

- O What are current weaknesses/similarities?
- o How could things be improved?
- How to share best practice in emergency planning and response across dispersion hazards

15:40 Conclusions - Key points for taking forward

Robin Grimes (Chief Scientist MoD)

15:55 Close-out

Simon Gant (HSE)