

<b>Activity Type</b>	Management	<b>Document No.</b>	
<b>Subject</b>	CONFIDENCE WP1 meeting and workshop on meteorological uncertainties		
<b>Location</b>	IRSN, 31 avenue de la Division Leclerc, 92260, Fontenay-aux-Roses, France Bâtiment 02		
<b>Start Date</b>	26 June 2017, 13:30H	<b>End date</b>	28 June 2017, 15:00 H
<b>Recorder of Minutes</b>	Irène Korsakissok (meeting) and Susan Leadbetter (workshop)		
<b>Document Status</b>	Draft	<b>Date of Preparation</b>	14.06.2017
<b>List of Attendees (WP1 meeting and workshop)</b>	Andronopoulos, Spyridon	NCSR Demokritos, Greece	
	Bedwell, Peter	PHE, UK	
	De Vries, Hans	KNMI, Netherlands	
	Geertsema, Gertie	KNMI, Netherlands	
	Hamburger, Thomas	BfS, Germany	
	Korsakissok, Irène	IRSN, France	
	Le, Ngoc Bao Tran	IRSN, France	
	Leadbetter, Susan	MET Office, UK	
	Lind, Ole Christian (audio/visio)	CERAD/NMBU, Norway	
	Mathieu, Anne	IRSN, France	
	Pázmándi, Tamàs	Centre for Energy Research, Hungarian Academy of Sciences , Hungary	
	Périllat, Raphael	PHIMECA, France	
	Sogachev, Andrey	DTU Wind Energy, Denmark	
	Szántó, Péter	Centre for Energy Research, Hungarian Academy of Sciences ; Hungary	
	Tomas, Jasper	RIVM, Netherlands	
	Twenhöfel, Chris	RIVM, Netherlands	

## CONFIDENCE – WP1 meeting

### 26<sup>th</sup> June 2017 13:30 – 17:30

16 participants

13:30 – 13:40	Arrival
13:40 – 13:45	Overview of tasks and deliverables
13:45 – 14:15	Deliverable 1.1: Guidelines ranking uncertainties for atmospheric dispersion <ul style="list-style-type: none"> <li>Review of the sections, content and leader for the redaction of each section</li> <li>Proposal of a preliminary plan (to be completed by following discussions and workshop) and planning</li> </ul>
14:15 – 15:00	Discussion on source term uncertainties
15:00 – 15:30	Discussion on case studies <ul style="list-style-type: none"> <li>How many meteorological scenarios?</li> <li>How many release scenarios?</li> <li>Uncertainties beyond meteo and source terms: what uncertainties and how are they taken into account?</li> </ul>
15:30 – 16:00	Break
16:00 – 16:15	Discussion on case studies (continued) <ul style="list-style-type: none"> <li>Outputs</li> <li>Planning</li> </ul>
16:00 – 16:45	Discussion on interactions with other WPs (WP4 – WP6) <ul style="list-style-type: none"> <li>Brief presentation of the HARMONE case studies (synthetic perturbations) used for the preliminary outputs</li> <li>Need of WP4: maps (or other) for stakeholders panels + detailed outputs (e.g. daily or hourly deposition) as input for ERMIN</li> <li>Is it possible to select one of our case studies and make early runs (e.g. ten simulations with different meteorological members) and provide the outputs to WP4 by the end of 2017?</li> <li>How to present our uncertainties to stakeholders? Any ideas beside probability maps?</li> </ul>
16:45 – 17:15	Miscellaneous: next steps, next WP1 meetings
17:15 – 17:30	Wrap-up and summary, review of issues, deadlines and plan of action

## CONFIDENCE – WP1

### Ensembles Workshop Agenda

#### 27<sup>th</sup> and 28<sup>th</sup> June 2017

<b>List of Attendees (Workshop only)</b> <i>In addition to the list p.1</i>	Descamps, Laurent	Météo France, France
	Didier, Damien	IRSN, France
	Quélo, Denis	IRSN, France
	Quérel, Arnaud	Strathomenergie, France
	Mallet, Vivien	INRIA, France
	Saunier, Olivier	IRSN, France
	Sørensen, Jens Havskov	DMI, Denmark
	Szintai, Balázs	HMI, Hungary

**23 participants**

#### Day 1 (27<sup>th</sup> June 2017)

09:00 – 09:30	Coffee on Arrival
09:30 – 09:45	Welcome, introduction and overview of workshop aims
09:45 – 10:30	<b>Laurent Descamps</b> (Météo France), Short-range meteorological ensemble modelling
10:30 – 11:00	<b>Balázs Szintai</b> (Hungarian Met Service), Ensemble numerical weather prediction at the Hungarian Meteorological Service: system description and potential support for dispersion applications
11:00 – 11:30	<b>Gertie Geertsema</b> (KNMI) – Ensemble prediction for dispersion modelling in a coastal area.
11:30 – 12:00	Break
12:00 – 12:30	Discussion <ul style="list-style-type: none"> <li>• How well do ensembles represent the uncertainty in the meteorology?</li> <li>• What are the advantages in using a short-range meteorological ensemble for dispersion modelling?</li> <li>• Can we determine how uncertain a single forecast is?</li> </ul>
12:30 – 14:00	Lunch
14:00 – 14:45	<b>Jens Sørensen</b> (DMI) NKS research on uncertainty of atmospheric dispersion prediction; results of the MUD, FAUNA and MESO projects
14:45 – 15:15	<b>Raphaël Périllat</b> (PHIMECA), Using meteorological ensembles for atmospheric dispersion modelling of the Fukushima nuclear accident
15:15 – 15:45	<b>Thomas Hamburger</b> (BfS), title to be confirmed



## Day 2 (28<sup>th</sup> June 2017)

09:15 – 09:45	<b>Spyros Andronopoulos</b> (EEAE), Using meteorological measurements to reduce uncertainty
09:45 – 10:15	<b>Denis Quélo</b> (IRSN), Wet deposition
10:15 – 10:45	<b>Susan Leadbetter</b> (Met Office), Using radar rainfall data to constrain deposition predictions
10:45 – 11:15	Break
11:15 – 12:00	Discussion <ul style="list-style-type: none"> <li>• How can meteorological measurements be used to constrain the uncertainty provided by the ensemble?</li> <li>• Uncertainties in wet deposition modelling – how important are these and how much can the uncertainty be attributed to uncertainty in the meteorology?</li> </ul>
12:00 – 12:30	Wrap up and next steps
12:30 – 13:30	Lunch
13:30 – 15:00	Visit to IRSN's technical crisis centre (optional)