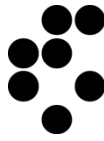


PREPARE



Institut "Jožef Stefan", Ljubljana, Slovenija



STUDIECENTRUM VOOR KERNENERGIE
CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE

First Invitation

Table-Top Exercise

“Monitoring a large scale cross border contamination in the aftermath of a nuclear accident”

**Jožef Stefan Institute (JSI)
Jamova cesta 39,
Ljubljana, Slovenia
11 - 12 December 2013**

Organised by JSI

in cooperation with

SCK•CEN – Belgian Nuclear Research Centre, Belgium

Hosted by JSI

Jamova cesta 39, 1000 Ljubljana, Slovenia

Background

The Table-Top Exercise on “*Monitoring a large scale cross border contamination in the aftermath of a nuclear accident*” is organised within the FP7-project PREPARE, WP7 Training courses, dissemination of knowledge and exercises.

In the event of a nuclear or radiological emergency, the aim of the emergency monitoring and measurement strategy would ultimately be to produce a radiological contamination map of the area affected to guide radiological evaluators and decision makers in optimizing the protection strategy recommended for the public. The results of any emergency monitoring programme are likely to take days or weeks to acquire and collect data, according to the extent of the contamination and the characteristics of the environment. Many emergency teams will be involved, especially in the case of an accident with the transboundary impact affecting different countries.

The emergency monitoring would not only be required to perform radiological dose assessments for comparison with intervention and reference levels, but will also be important in stakeholder dialogue and communication processes to prevent or mitigate the consequences (health effects, psychological effects, economic and sociological consequences) of the nuclear or radiological emergency affecting the public. The monitoring process can be guided by information obtained by dispersion modeling. The use of dedicated software tools in terms to visualise field measurement data could be part of the emergency monitoring strategy and can improve the efficiency of the monitoring process.

Whilst the emergency monitoring strategy details cannot be planned in advance, greater efficiency can be achieved, if planning in terms of coordination, access to resources, outline strategy, priorities and other matters are included as part of the emergency planning process. Many countries have prepared national monitoring strategies in case of an nuclear or radiological emergency and international guidelines are available (IAEA, NEA, ...).

The main goal of this table-top exercise is to disseminate the existing emergency preparedness plans for emergency monitoring on a large scale contamination, based on a hypothetical accident scenario affecting different countries and identify possible pitfalls.

Scope and Objectives

The scope of the exercise is to discuss, elaborate and evaluate the emergency preparedness plans related to large scale contamination emergency monitoring based on a severe nuclear emergency with serious transnational/transboundary implications.

The objectives are:

- To identify the different national and/or regional monitoring strategies in case of a large scale nuclear accident with transboundary impact, priorities, resources;
- To identify possible pitfalls related to different strategies, measurement techniques, sampling procedures, calibration issues for the integration of monitoring effort in a common European monitoring strategy (focus will be on the technical pitfalls)
- To identify the measurement capacity and the expected duration of a measurement campaign depending on the priorities and resources
- To identify the ways to exchange monitoring data (e.g. format, information)
- To discuss visualization and interpretation of modelled data and raw data from the field measurements

The exercise will focus on monitoring the environmental contamination after main cloud passage (with possible some limited residual releases), this implies that during the exercise we will mainly discuss the following monitoring methods:

- Early warning networks
- Mobile measurement teams, including dose-rate measurements, contamination measurements, in-situ gamma ray spectrometry, ...

- Car and airborne contamination monitoring
- Sampling followed by laboratory measurements (including mobile laboratories)

The injects of the scenario will be given through the contamination maps with subsequent dispersion modelling. A report will be drafted by the organizers.

Practical organization/preliminary programme:

First day morning:

Welcome

- We invite participants to give a short 10-15 minute overview of their national/regional emergency monitoring strategy/capacity related to monitor environmental contaminations in the aftermath of a nuclear/radiological accident.
- Introduction of the table-top exercise. The hypothetical accident will be shortly discussed and maps with dispersion model calculations and results of early warning stations will be delivered.

First day afternoon:

- Table-top exercise: definition of a monitoring strategy, practical implementation, resources, collection of results, refining strategy, ...
- During the exercise some hypothetical pre-calculated measurement results will be introduced to stimulate the discussion.

Second day morning:

- Table-top exercise: exchange of data, visualization, interpretation
- During the exercise, again some maps will be introduced to stimulate discussion
- Round-up with summary of conclusions of the exercise

Target Audience Condition for the participation

Participants should be from (or linked to) national response organizations or research institutes directly involved in monitoring (or emergency monitoring strategy) related to nuclear and/or radiological emergencies.

Date and Venue

11th and 12th December 2013, Jožef Stefan Institute, Ljubljana, Slovenia

Working language

the exercise will be conducted in English.

Exercise folder

will be available to the participants at the beginning of the exercise.

Fee

There will be no registration fee. Participants are expected to cover their own travel and subsistence costs. Limited funds will be available to partially cover the cost of selected participants. Requests have to be made before August 31, 2013.

Important dates:

Intention to participate deadline:	August 31, 2013
Full-registration:	October 31, 2013
Table top exercise:	December 11-12, 2013

Contact&Information

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Provisional agenda

Wednesday, 11. 12. 2013 (Full-day, starting at 9:00)

Thursday, 12. 12. 2013 (Half-day, starting at 9:00)

The hotels in the area: to be arranged with the organiser