



INSC Project MC.03/10

**Training and Tutoring for expert of the NRAs and their TSOs for
developing or strengthening their regulatory and technical
capabilities**

LOT 1

Tutoring Module N. 5

“Radiation protection and regulatory emergency preparedness”

March 11 - May 03, 2013

c/o SCK-CEN, Mol – Belgium

Tutoring Program

February 2013



Draft Tutoring Program

c/o SCK-CEN, Mol – Belgium, from March 11 to May 03, 2013

General content

The tutoring activity has been conceived as “on the job training” at SCK-CEN in the area of radiation protection control and emergency preparedness.

The tutoring will include the familiarization with the

- content of emergency plan
- responsibility of stakeholders (responsibility of operator, government and regulator)
- models and measurements for the transfer of radioactivity in the environment and to the public
- measurements and monitoring tools
- arrangements of a regulatory emergency centre, its management preparedness and national and international drills
- EC and international legal instruments and requirements

Duration and place

11 March – 03 May 2013, SCK-CEN, Mol, Belgium.

Hosting Organization

The tutoring is hosted by the Belgian Nuclear Research Centre (SCK•CEN).

Language

All presentations and discussions are carried out in English.



Specific program

The eight weeks tutoring program for the period from 11 March to 03 May 2013 includes:

- Review of requirements of a national nuclear and radiological emergency plan based on international guidelines and example plans from different countries. Integration of nuclear and radiological emergency response plans into general emergency response.
- Review of atmospheric dispersion models for studying the impact of nuclear and radiological emergencies. Calculation of impact of specific nuclear and radiological emergencies scenarios. Different atmospheric models will be available for the trainees to perform calculations (e.g. JRODOS, Noodplan models, Hotspot, etc).
- Review of monitoring requirements for nuclear and radiological emergencies. Review of monitoring procedures. Practical experience with monitoring techniques for nuclear and radiological emergencies: large scale contamination measurements (car-borne gamma spectrometry), thyroid measurements, etc.
- Review of nuclear and radiological countermeasures and strategies.
- Further, the trainees will be introduced by several experts related to specific topics: set-up of early warning stations (EU project Detect), Food contamination, crisis communication, decision support, etc.