

Tentative Training Programme for the ALMERA Practical Training Course on Rapid Determination of Radiostrontium in Milk Using Cerenkov and Scintillation Counting

Korea Institute of Nuclear Safety, Daejeon, Republic of Korea

3–7 November 2014

Monday, 3rd November 2014:

09:00 - 09:15: Welcome to the training course	KINS officials
09:15 - 09:45: Presentation of the training course programme	A. Pitois (IAEA), KINS staff
09:45 - 10:00: Introduction of participants	All participants
<i>10:00 - 10:15: Coffee/Tea Break</i>	
10:15 - 11:00: Safety in the laboratory	KINS staff
11:15 - 12:30: Detailed presentation of the analytical procedure through photos of the different steps	A. Pitois (IAEA)
<i>12:30 - 13:30: Lunch</i>	
13:30 - 18:00: Laboratory work – Preparation of the milk samples from the spiked milk powder and separation of the cations from the milk sample	KINS staff, A. Pitois (IAEA)

Tuesday, 4th November 2014:

09:00 - 12:30: Laboratory work – Radiochemical separation	KINS staff, A. Pitois (IAEA)
<i>12:30 - 13:30: Lunch</i>	
13:30 - 16:00: Laboratory work – Radiochemical separation	KINS staff, A. Pitois (IAEA)
16:00 - 18:00: Presentation of the radiochemical separation, chemical recovery step, source preparation and basic counting principle by Cerenkov and LSC	A. Pitois (IAEA)

※ Hospitality dinner sponsored by KINS

Wednesday, 5th November 2014:

09:00 - 12:30: Laboratory work – Chemical recovery, source preparation and Cerenkov analysis
KINS staff, A. Pitois (IAEA)

12:30 - 13:30: Lunch

13:30 - 15:15: Detailed principles of Cerenkov and Liquid Scintillation Counting, and of the calibration of the instrument
A. Pitois (IAEA), KINS staff

15:15 - 15:30: Coffee/Tea Break

15:30 - 16:45: Presentation of the principles for calculation of ⁸⁹Sr and ⁹⁰Sr activities and measurement results uncertainty estimation
A. Pitois (IAEA)

16:45 - 18:00: Initiation of the Liquid Scintillation Counting analysis
KINS staff

Thursday, 6th November 2014:

09:00 - 10:00: Analysis of the Cerenkov and Liquid Scintillation Counting spectra in the measurement room
KINS staff, A. Pitois (IAEA)

10:00 - 10:15: Coffee/Tea Break

10:15 - 12:30: Calculation of ⁸⁹Sr and ⁹⁰Sr activities
A. Pitois (IAEA)

12:30 - 13:30: Lunch

13:30 - 15:30: Calculation of ⁸⁹Sr and ⁹⁰Sr activities
A. Pitois (IAEA)

15:30 - 15:45: Coffee/Tea Break

15:45 - 18:00: Measurement results uncertainty estimation on ⁸⁹Sr and ⁹⁰Sr activities
A. Pitois (IAEA)

Friday, 7th November 2014:

09:00 - 12:30: Visit to the selected KINS facilities
KINS staff

12:30 - 13:30: Lunch

13:30 - 14:30: Wrapping up on activity calculations and uncertainty estimation
A. Pitois (IAEA)

14:30 – 16:00: Discussion and comparison of results, limitations of the method,
A. Pitois (IAEA)

16:00 - 16:15: Coffee/Tea Break

16:15 - 16:45: Debriefing of the training course	All participants
16:45 – 17:00: Evaluation of the training course	All participants
17.00 - 17:30: Conclusions from the host institution KINS and IAEA, Group photographing	KINS staff, A. Pitois (IAEA)