Working title: NKS seminar on current trends in nuclear safety and emergency preparedness

(Joint NKS R and B)

Venue: Location depends on VIP priorities to be indicated (e.g., by Board and NEP Group members). The choice of a Nordic capitol will simplify travelling. Proposed duration: 1½ (or 2?) days. Proposed time: June 2015 or January 2016.

Planning: The task given to the NKS Coordination Group at the January 2014 Board meeting was to consider possibilities for a Joint R and B Seminar with many activity specific presentations. In view of the success of the January 2013 NKS Fukushima Seminar arrangement, it is proposed to also start this seminar with a suite of 3-4 specially selected international key speakers (perhaps to be committed through our Chairman). It would also seem logical to pick up on key issues presented at the Fukushima Seminar and assess and discuss how the development has since then been in relation to these, and what this implies for Nordic Nuclear and Radiological Safety as it is today and in the future. The weighting of the various issues should be discussed thoroughly (how do we want to focus?). For the activity specific presentations, speakers should be selected carefully to balance the programme wrt., e.g., topics, coordinator countries, and quality/novelty of the work done, and activities should be reasonably new (from the latest perhaps 2 years).

In the following an example list is given of possible general topic (session) headings for the activity presentations. These have been compiled to give approximately equally large blocks wrt. the number of activity reports published by NKS on each topic. The sessions are mixed wrt. R and B, so as to keep the whole audience seated. An attempt has been made to give a logical sequence of topic (session) headings ('bridges' are indicated in brackets). It should be stressed that this is just an example aimed at provoking useful discussion, so we can get an arrangement process started. A Program Committee for the further arrangement would be useful to have (as shown in connection with the Fukushima seminar arrangement).

Reactor physics and thermal hydraulics (R)
(many issues in NKS are closely related to reactor techniques, so this could form a reasonable starting point)
Examples from 2012-14: DECOSE (12/13/14), ENPOOL (12/13/14), POOLFIRE (12/13)

Emergency Preparedness I: experiments, exercises and information (B)
(reactor related issues are crucial in designing measures to improve the preparedness knowledge base on emergencies)
Examples from 2012-14: MOBELRAD (14), SEMUNARS (14), THYROIDSEM (14), GASMAT (13), THYROID (12)

Risk analysis and severe accidents (R)
(on site accident descriptions govern the consequences off site)
Examples from 2012-14: DIGREL (12/13/14), DPSA (13/14), L3PSA (13/14), AIAS-2 (12), RASTEP (12/13)

Emergency Preparedness II: harmonised decision support (B)
(decision support needs both on site and off site parameters)
Examples from 2012-14: FAUNA (14), PUBPLUME (12-?), MUD (12/13), EMSEM/NORDEX-12 (12/13)

Safety culture and plant ageing (R)
(such aspects are important in considering if/when a future emergency might occur)
Examples from 2012-14: HUMAX (13/14), PROCOM (14), MOREMO (12), SADE (12/13), NORDIC-GEN4 (12/14)

Measurement strategy, technology and QA (B)
(measurements are required in planning safety as well as in optimising response)
Examples from 2012-14: CONCORE (14), GAMMAUSER (14), NOVE (13/14), RAPID-TECH (14), STANDMETHOD (14), GAMMATEST (14), RADIOANALYSIS (13), MOMS (12), GammaWorkshops 2012 (12)

Decommissioning and waste management (R)
(decommissioning requires many measurements and environmental assessments)
Examples from 2012-14: DECOMSEM (13) (this session could be made shorter and an other R session longer)

Radioecology and environmental assessments (B)
(radioecology is needed in emergency preparedness as well as in decommissioning)
Examples from 2012-14: EFMARE (14), NORMIN (14), BERMUDA (13/14), COSEMA (13/14)

The comments we got from the attendants of the Fukushima seminar could be useful to take into account. These included:

- 'More time for questions'
- Many requested 'more time for discussion' (however perhaps not so needed for activity specific presentations)
- 'Fewer and a bit longer presentations' (does not seem possible this time due to focus on NKS activities). Others wanted shorter presentations…
- 'A better balance of Nordic vis-à-vis global interests'

The following is an example of how the program might be laid out for a 1½ day seminar. The intention is to give a better feeling of how many presentations it would be possible to accommodate, given that they each have a certain length, but everything is of course highly elastic, and can be weighted entirely differently. The weighting would also depend on the types of activities that will run in 2015 (a largely unknown parameter). The Fukushima element could be strengthened through selection of some of the quite many Fukushima related activities that have run since the Fukushima seminar (especially on the B side). Note that for the latest NKS R/B joint summary seminar in 2009, the allocated time for each of the 23 activity-specific presentation was 25 minutes (incl. questions). In the example below we have 16 activity-specific presentations, each lasting 20 minutes (incl. questions).

Day 1:

12:30 – 13:00 Registration

13:00 – 13:15 Opening, welcome, seminar objectives and topics

13:15 – 15:15 Opening session with international key speakers on the present and future of nuclear and radiological safety

15:15 – 15:45 Coffee

15:45 – 16:25 Two activity presentations on topic 1

16:25 – 17:05 Two activity presentations on topic 2

17:05 – 17:45 Two activity presentations on topic 3

18:00 – 20:30 Mingling buffet reception ?

Day 2:

09:00 – 09:40 Two activity presentations on topic 4

09:40 – 10:20 Two activity presentations on topic 5

10:20 – 10:50 Coffee

10:50 – 11:30 Two activity presentations on topic 6

11:30 – 12:10 Two activity presentations on topic 7

12:10 – 13:10 Lunch

13:10 – 13:50 Two activity presentations on topic 8

13:50 – 14:30 Fukushima specific update on R related issues (speaker(s) and discussion). New developments and related influences and requirements for Nordic areas

14:30 – 15:00 Coffee

15:00 – 15:40 Fukushima specific update on B related issues (speaker(s) and discussion). New developments and related influences and requirements for Nordic areas

15:40 – 16:00 Final discussion and conclusions