Feedback from working group on $A_1/A_2$ values to TRANSSC 38

24-25 June 2018
Summary of 12th meeting

• Meeting of the A₁/A₂ Working Group was held on 24-25 June 2019

• Regular members from France (IRSN), Germany (GRS), Japan (NRA and NMRI), Switzerland (CERN) and UK (PHE) attended + other experts from TRANSSC MS (USA, Egypt)
Matters arising

• In the last year we have responded to request from the USA to calculate $A_1$ and $A_2$ values (using the current Q system) for a number of radionuclides:
  • Sb-119, Sb-120m, Te-118, Te-119, and Te-119m - already calculated
  • Ba-135m, La-132, La-133, La-135, Ce-132, Ce-134, Ce-137 and Ce-137m
• PATRAM 2019 (4 papers + 2 posters) and papers for the open literature
• Review/revision of SSG-26 (next cycle)
Review of Q system

• Review of $Q_A$, $Q_B$ and $Q_D$ completed

• Work on $Q_C$ relies on publication of ICRP dose coefficients for inhalation. Most dose coefficients for workers (Part 1, 2 and 3) have been published. We are reviewing these values

• Dose to the lens of the eye will also be included. Reference dose has been agreed

• Tasks left to do:
  • $Q_E$ (submersion dose, noble gases)
  • Neutron doses (not included properly in current Q system)
Development of software

- Colleagues from Switzerland in the group have developed a very good software program for the Q system

- Software can be used to:
  - Compare results of different organizations and different methodologies
  - Compare results of new and current methodology
  - Produce Q values for a huge number of radionuclides, well over number in current regulations

- Once review has been completed and a single methodology has agreed a simplified version of the software could be made available to TRANSSC or IAEA members to calculate/display values

- Agreement on specific arrangements need to be sorted out
Outreach - dissemination

- We are moving into operational phase of work. We need to engage with TRANSSC to make decisions that are not only scientific/technical but require consensus. This could be done through TTEG.
- We will continue to publicise work of the group through papers/conferences (PATRAM 2019).
- We welcome any suggestions to engage transport community (EACA meeting).
Thank you