International Recommendations and Standards on Occupational Radiation Protection: Recent Changes and the Challenges in their Implementation

Summary of Submitted Papers

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Summary of Submitted Papers

14 papers

- Asia – 5
- Latin America – 2
- Africa – 4
- Europe – 2
- North America - 1

Planned Exposure Situations

- Medical Applications
- Industrial Applications
- Education & Research
- Nuclear Power & Fuel Cycle

Evolution of Occupational Exposures

- In general doses within limits
- NPP doses reducing driven by lower limits and optimisation
- Individual doses in other areas not changed much…..collective dose increase due to increase in application

- My thought: the use of an average dose probably not very informative; it can hide important issues.

Issues in Controlling & Monitoring Occupational Exposure (1)

- Lack of Finance and Resources
- Lack of ORP Infrastructure
- Insufficient Dosemeters

Issues in Controlling & Monitoring Occupational Exposure (2)

- Lack of competent staff (RSO)
- Lack of internal dose assessment
- Lack of extremity assessment
- Regulator as a TSO
- Nuclear Plants: itinerant workers
- Mines: ventilation issues / uncertainties in internal dose assessment
- Medical: RP awareness is low

Practical Implementation of Standards

- ALARA – Cost Benefit Assessment: derivation of *alpha values*
- Example of Occupational Radiation Protection structure

A Personal View

- More emphasis should be placed on the understanding and implementation of the ORE standards rather than their constant refinement
- Although there is a delay between the update of international standards and their incorporation into legislation, in many less affluent countries the major issues and challenges relate to the practical implementation of the radiation protection requirements.