

Review & Revision of the System: Topics to Consider

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Timeline so far

April 2018 (Quebec City): **First internal brainstorming** within the Main Commission, a “discussion to identify issues in the system of radiological protection which may require further work”

October 2018 (Stockholm): **Meeting with liaison organisations** to identify key issues

September 2019 (Paris): **Meeting with liaison organisations** on integration of environment and individualisation of protection

2020/2021: Started to broadly **inform organisations** of the review & revision

June 2021 (On-line): **Meeting with liaison organisations** on process and topics

~July 2021: ICRP paper on “**Keeping the ICRP Recommendations Fit for Purpose**”

“Fit for Purpose” Paper

1. **Background and Purpose**
2. **Objectives and Principles of the System**
3. **Overarching Considerations**
4. **Dose**
5. **Effects and Risk**
6. **Conclusions**

A companion paper is being developed:

Areas of Research to Support the System of Radiological Protection

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Background

- The System is robust and has performed well but must adapt to address changes in science and society to remain fit for purpose
- Initial reflections on core elements a high level that may require attention, not set positions
- The beginning of a process that will take several years involving open and transparent engagement with organisations and individuals around the world

Purpose

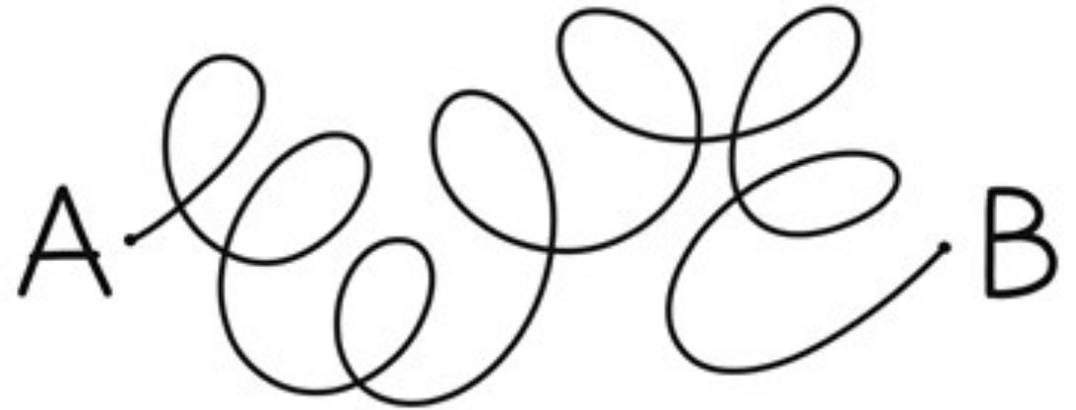
- Encourage discussions throughout the radiological protection community and beyond on which areas of the System might benefit most from detailed review and refinement
- Initiate and shape collaborative efforts to examine prioritised areas and develop improvements
- Help define the ICRP programme of work for the coming years

Clarity and Consistency

Increasing clarity and consistency is a high priority

The System must be more understandable and easier to communicate.

The better the System is understood, the more effectively it can be applied, resulting in improved protection and increased harmonisation



2. Objectives and Principles of the System

- 2.1. Objectives
- 2.2. Protection of People
- 2.3. Protection of the Environment & Non-Human Biota
- 2.4. Fundamental Principle of Justification
- 2.5. Fundamental Principle of Optimisation
- 2.6. Fundamental Principle of Application of Dose Limits
- 2.7. Categories of Exposure and Exposure Situations

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3. Overarching Considerations

- 3.1. Ethical Aspects of Radiological Protection
- 3.2. Communications and Stakeholder Involvement
- 3.3. Education and Training

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4. Dose

- 4.1. Dose Quantities
- 4.2. Effective Dose, Including Age, Sex, and Individual Specific Doses
- 4.3. The Use of Effective Dose in Medicine
- 4.4. Effective Dose Coefficients
- 4.5. Dose Quantities for Non-human Biota and Ecosystems

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5. Effects and Risk

- 5.1. Classification of Radiation-Induced Effects
- 5.2. Tissue Reactions
- 5.3. Cancer at Low Doses and Dose Rates
- 5.4. Individual Response of People
- 5.5. Heritable Effects
- 5.6. Radiation Weighting for Different Effects
- 5.7. Radiation Detriment
- 5.8. Effects and Risks in Non-Human Biota and Ecosystems

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What's Next: How to Engage

- Discussion during this meeting, informed by materials sent in advance
- **Submissions to ICRP 2021 ***
- Publication of your ideas in peer-reviewed journals
- ICRP liaison meetings on specific topics
- ICRP symposia focusing on review & revision
- Open workshops on specific topics (organised by ICRP and others)
- Direct engagement with ICRP
- ...

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