

Name of Task Group:

Application of the Commission's Recommendations to activities involving mobile high activity sources.

Terms of Reference:

To develop a report that describes and clarifies the application of the Commission's Recommendations on radiological protection of workers, the public, and environment to activities involving mobile high activity sources.

The scope of the report will cover uses of sealed sources in industrial radiography, and other instances in which high activity sources are used in a mobile setting, rather than fixed location. Radiological protection in such situations is unique because the prevailing circumstances are constantly changing, and the location and control of individuals is not defined by any permanent structures or shielding. Further, the circumstances are often complex, with a variety of geometries, constantly changing locations, access restrictions, and environmental conditions such as limited workspaces, vertical heights, and weather.

The report proposal is the result of solicitation of interest from ICRP Special Liaison Organizations, and was suggested by the European ALARA Network (EAN) and the International Radiation Protection Association (IRPA).

Aspects to consider include:

- Justification, particularly with respect to the choice of NDT techniques (e.g. ultrasound compared to X-ray)
- Optimisation of Protection:
 - Dose Constraints
 - Relationship of Safety Culture to Optimization
 - Public Exposure, including other workers at work site
- Accident Situations
- Implementation Issues
 - Radiation Protection Planning in highly variable environments
 - Monitoring of exposures
 - Multiple methods of protection
 - Training and Qualification
 - Medical surveillance – routine and after overexposures (including a consideration of the lens of the eye)
 - Stakeholder involvement, including workers, clients, and employers

Deliverable: ICRP Publication on Application of the Commission's Recommendations to activities involving mobile high activity sources. Focused publication of approximately 40 pages, providing background and information on circumstances, describing application of system, and elaborating on the elements. The report will not delve into regulatory specifications or specific national issues.

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Target dates:

Report for review and adoption by C4, October 2018

MC Approval and Consultation, December 2018

Final draft for C4, Summer 2019

Revised report after public review for adoption by MC, Fall 2019.

Total costs to ICRP: 6 000 US \$. Work will primarily be conducted via electronic means.