

“Issues related with NORM”

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Issues IRPA NORM TG can help

- ❖ **Different regulators involved: effective interaction, working collaboratively**
- ❖ **Raise awareness in industries about NORM in a positive way. Feed back from industries.**
- ❖ **Regulatory framework: Need of reasonable and effective regulation. National/prevaling circumstances**
- ❖ **How to apply a practical / graded / flexible approach in NORM regulation.**
- ❖ **Characterization of NORM activities: practical advice, good practices.**
- ❖ **Waste management. Circular economy. Good practices.**

Issue

DS 500 *Application of the Concept of Clearance* Treatment of radionuclides of natural origin for materials coming for practices: suggest the basis for clearance a dose of the order of 10 μ Sv in a year and not 1 Bq/g.

- ❖ **Clearance clue process in the minimization of waste.**
- ❖ **Circular economy approach waste management.**
- ❖ **Values from exclusion concept: recognition the cost of exercising regulatory control and the net benefit to be gained by doing so,**
- ❖ **Great confusion that could be caused to Stakeholders by creating different set of values for the same radionuclides.**
- ❖ **Exemption of bulk amounts of material considered on a case by case basis using a dose criterion of the order of 1 mSv in a year.**
- ❖ **Continued regulatory control of material would yield benefit? Is this reasonable?**

Issue

Radon Dose Coefficients

- ❖ Historically calculated using the dose conversion convention. (ICRP 65)
- ❖ ICRP recommends a nominal risk coefficient of 5×10^{-4} per WLM.
- ❖ ICRP 137 Part 3: biokinetic and dosimetric models, resulting in an increase in effective dose per unit exposure of a factor of two and even more in the cases of specific cases. (10 mSv per WLM)
- ❖ UNSCEAR review: due to the uncertainties from both dosimetric and epidemiological: there is no reason to change the established dose conversion factor. (5.7 mSv per WLM)
- ❖ Need of clarification in order to apply the most appropriate radiation protection requirements to the control of radon gas exposure.

Thank you!

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