



**IAEA**

*60 Years*

*Atoms for Peace and Development*

# **NORM VIII Symposium** ***Overall Conclusions***

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# NORM VII

- NORM residue management cannot be expected to be completely resolved in just a few years.
- Further clarification on the system of protection for NORM and its implementation in practice is needed.
- More focus on Coal fired power stations.
- Knowledge and awareness among NORM workers
- Transport of NORM
- Stakeholder engagement

*“Try to capture reality”*

# NORM VIII

- Standards are very well understood, exemption level for regulation with graded approach (many countries have similar type of understanding, regulations, ordinance, regulatory guidance, etc.), however still fractured
- Robust regulatory systems (avoid from regulatory burden with good structured policy and strategies)
- Guidance on applications, practical cases studies (dilution, blending, building materials etc.), NOT gold standards
- Separation of active mining from legacy sites (discussion at the international level)
- Transferring knowledge in a timely manner
- Industry oriented guidance (need to work more closely)
- Measurement is very well, concentrate on how to assess and interpretation
  - Far from harmonization, problems in developing countries for laboratory and measurements (IAEA procurements under TC projects)
  - Group of countries with different needs, agendas
  - Technical support needs clear understanding on country needs (RP is one of them, collaboration is a must)

# NORM VIII

- Regulator is driving the system, but much more industry input is needed
- Do not scare (!) the industry, NORM symposia is not only problems. We have many good / pragmatic approaches, practices, research, etc.
- NORM is a long term interest area
- *Slight deviation from Radiation Protection*
- Occupational Health and Safety requirements (radiation is not the dominant and one of the risk agent)
- Balancing risk and its management (holistic approach)
- Correct information to the public
- Young scientist / professionals are the drivers of the system

# Next NORM Symposium

- Session on NORM – Environment, Radioecology, Remediation, decommissioning, waste management strategies
- Industry representation for experience sharing: Invited speakers from RP Offices from key NORM industries
  - (Zircon , IFA – International Fertilizer Association, Titanium Dioxide Association)
- Rare-earth NORM industry
- Regulators from Developing countries
- Site visit to a NORM facility
- Practical information courses -Refresher course about NORM practical, studies
- Remote sessions (such as webinars)
- Change the style of the symposium, more time for discussions, poster presentations is a good practice that should continue
- Be careful for the target audience and try to pass correct messages

- Symposium presentations at the IAEA ORPNET
- Proceedings will be made available in a reasonable time

# Next NORM

- South Africa (major industries) - Senegal
- Denver - USA (EPA)
- Portugal (University of Lizbon)