Spent fuel and radioactive waste management Directive –
European position and use of regulatory resources

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Outline

- Status of Directive 2011/70/EURATOM implementation by MS
- Status of radioactive waste and spent fuel in EU
- Effective use of regulatory resources
Directive 2011/70/EURATOM

- Policy, framework and programme for SF and RAW
- Independent regulatory body
  - Sufficient human and financial resources
  - Informing the public about its activities
  - Self-assessment and peer reviews every 10 years
- Expertise, skills and funding
- Strict control of exports of spent fuel and radioactive waste to third countries
- Shared repositories is an option
- Promotion of public information and participation
• **Transposition**

  • 25 MS declared full transposition and 3 partial/none

  • Common and specific areas for discussion/clarification with MS being identified

  • **National programmes** by 23 Aug 2015

  • Work Shop held in Luxembourg in November 2014
• National reports
  • Overall implementation of the Directive
  • EC to report to the Council and EP – 2016 (and every 3 years after)

• Inventory of SF and RAW
  • Cooperation with IAEA
  • Status and Trends project (2014-2016)

Meeting in Luxembourg, 8-12 June 2015
Peer reviews

- Programme, regulatory and national framework
- MS decision on type, time and scope
- MS schedule and pool of experts being discussed in ENSREG WG 2 "Waste"
  - 3 MS considering reviews in 2016
- Interface with IRRS missions (non-nuclear countries)
- MS to report outcomes to the Commission
- Shipments of waste and spent fuel – notification of agreements prior shipment
- Complementary to
  - EURATOM, Art 103 notification
  - Notifications to ESA
  - Safeguards notifications
  - Reports under 2006/117/EURATOM Directive
- Agreements prior EU accession
  - Specific attention in light of Art 4(4) 2011/70/EURATOM Directive on disposal of waste in a third country
Effective use of regulatory resources

• Facing an increasing volume of waste and spent fuel

  Challenges:

  • characterisation of waste
  • minimisation of volumes
  • Irradiated graphite

• Licencing process for waste treatment facilities

• Skilled human resources
Effective use of regulatory resources

- Maintenance of skilled and sufficient resources remains a challenge
  - EC ongoing study for Regulators and TSOs on training on nuclear safety assessment (2015-2016)
  - E-track project, JRC Ispra school on waste management and decommissioning, etc.

- Increased reporting to international organisations
  - ENSREG WG2 Guidance on national reports (Directive 2011/70/EURATOM)
  - Peer review guidance being developed (ARTEMIS)
Feasibility study in support of the development of a level playing field for nuclear safety assessment by Regulators and TSOs in the EU