Need for harmonised SF/RW inventory presentation

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Content

- What is ENSREG
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- Guidelines for national reports under Directive 2011/70
- Inventory reporting

What is ENSREG

- ENSREG Members
  - Senior Officials from national regulatory authorities or nuclear safety authorities from all EU MS
- Secretariat by EC
- ENSREG reports to
  - Council of the EU and the European Parliament through European Commission every three years (from 2009)
- Observers
  - Norway, Switzerland, Turkey, European Council, IAEA, OECD-NEA, WENRA

ENSREG Working Groups

- WG1 - Improving Nuclear Safety arrangements
- WG2 - Improving Radioactive Waste Management, Spent Fuel and Decommissioning arrangements
- WG3 - Improving in Transparency arrangements

WG 2 activities

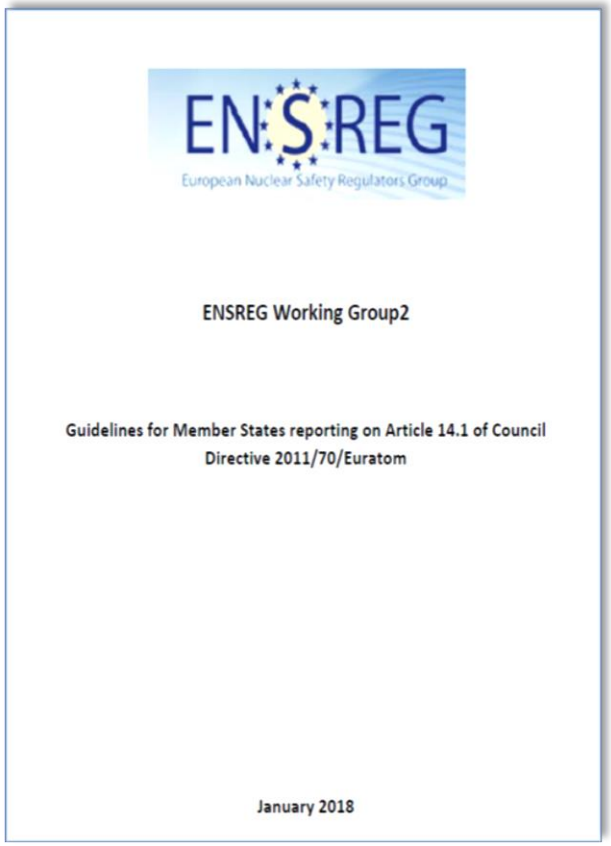
- Identify areas for improvements (EU context) related to management of spent fuel and radioactive waste
- …..
- provide guidance for MS on the structure and format of the national reports required under Article 14 (1)

Revision of guidelines for national reports under Directive 2011/70

- Among the obligation of Directive 2011/70/Euratom:
  - Notification to the European Commission of National Programme
  - Report to the European Commission on the implementation of the National Programme

A common issue of these two documents is the national inventory

Revision of Guidelines for national reports



- With the feedback from ENSREG WG2 workshop Oct 2016 on lessons learned from notification of national programs and first report on implementation of the Waste Directive
- Work initiated to revise and improve guidelines
  - Simplify
  - Better synergy on reporting under the Joint Convention
  - Optimization and harmonization of inventories reporting
  - Revised guidelines approved by ENSREG in December 2017 (published in February 2018)

Feebdack on draft Harmonised Inventory reporting (EC-IAEA-NEA)

In the framework of the joint initiative of the Commission (DG ENER), IAEA and NEA/OECD on the Harmonised Inventory reporting aimed at facilitating Member States reporting to international organisations (incl. the Joint Convention), some WG2 members commented on the draft template (set of harmonized reporting data).

Discussion took place in Luxembourg on 31 Aug – 1 Sept 2017 with the participation of WG2 members (Austria, Germany, Hungary, Italy, Poland, Spain, Sweden), the Commission services, as well as the IAEA and NEA/EGIRM as observers.

Feebdack on draft Harmonised Inventory reporting (EC-IAEA-NEA)

Some discussed issues

- Reporting unconditional waste and disposal volume
- Reporting of Disused Sealed Radioactive Sources (DSRS)
- Inventory forecasts and projections
- Locations
- Activity Reporting

Guidelines – Inventory reporting

Objective of the revision has been to provide a clear interpretation of what is requested by Directive 2011/70, in particular:

- *inventory of all spent fuel and radioactive waste and estimates for future quantities, including those from decommissioning,*
- *clear indication of the location and amount of the radioactive waste and spent fuel*
- *future prospects*

Guidelines – Inventory reporting

Article 12 – Contents of national programmes

1. The national programmes .....shall include all of the following:

(…)

(c) an inventory of all spent fuel and radioactive waste and estimates for future quantities, including those from decommissioning, clearly indicating the location and amount of the radioactive waste and spent fuel in accordance with appropriate classification of the radioactive waste;

Article 14 – Reporting

1. Member States shall submit a report to the Commission ....., and every 3 years thereafter, ...

2. On the basis of the Member States' reports, the Commission shall submit to the European Parliament and the Council the following:

(a) .....

(b) an inventory of radioactive waste and spent fuel present in the Community's territory and the future prospects.

Guidelines – Inventory reporting

Member States can deliver the inventory and the future prospects according to their national classification system. In order to make the information comparable on the Community's territory, Member States are recommended to provide a table to translate their national inventory into the IAEA classification system (IAEA Safety Guide "Classification of Radioactive Waste" GSG-1, 2009) or directly report their inventory according to IAEA classification system.

Guidelines – Inventory reporting

- Member States are required to provide in their National Programme an inventory of all spent fuel and radioactive waste and estimates for future quantities, including those from decommissioning, clearly indicating the location and amount of spent fuel and radioactive waste (Article 12.1(c)).
- ENSREG recommends that Member States ensure that the combination of National Programme and National Report provides the required information on inventory and estimates of future quantities and that, when applicable, updated information is presented in the National Report.

Guidelines – Inventory reporting

- ENSREG recommends that Member States ensure that updated information on inventories and estimates of future quantities is presented in the National Report.
- The inventory should comprise all radioactive waste (nuclear facilities operation and on going decommissioning, medical, research and industrial applications, remediation, ...) present in the Member States territory.

Guidelines – Inventory reporting

Radioactive Waste

- Waste volumes (m^3) by category disposed of in each operational or closed disposal facilit(y)(ies). Type of disposal is expected to be reported (Borehole, Landfill, Near Surface Disposal, Geological, Deep Geological). For operational disposal facilities the existing total capacity (m^3).
- Member States which have exported waste for disposal are expected to indicate the quantities concerned (volumes in m^3 by category) and countries of destination, and refer to the export agreement(s).
- Waste volumes (m^3) of conditioned waste by category stored in storage facilities. For unconditioned waste in storage, if possible, indication of the final conditioned volume is expected to be provided.
- For disused sealed sources declared as radioactive waste it has to be stated if they are included in the different waste categories, if not they should be reported separately.

Guidelines – Inventory reporting

Spent Fuel

- MS are expected to report the following information:
- Spent fuel disposed of (tHM, number of assemblies and type - BWR, PWR, CANDU, MOX, research reactor, …);
- If shipped to another Member State or outside EU for disposal (or reprocessing without return of waste): quantities in tHM, number of assemblies and type, countr(y)(ies) of destination.
- Spent fuel in storage (tHM, number of assemblies and type (BWR, PWR, CANDU, MOX, spent fuel from research reactor, …) by store type (dry cask, vault, pool) and locations (aggregation of locations could be acceptable if this is seen as sensitive).

[1] disposal volume" as the total volume taken up by the waste package for disposal

Guidelines – Inventory reporting

Reporting of future prospects

Radioactive waste

Member States are expected to report the total volumes (m^3) (as disposal volumes, if possible) of radioactive waste by category for storage and/or disposal for relevant time horizons (e.g. 2030, 2050, …) for:

- operational waste including new build (lifetime assumptions to be given);
- decommissioning waste (decommissioning assumptions to be given);
- remediation;
- waste (including disused sealed sources categorized as radioactive waste) from medical, research and industrial application.

This information is expected to include waste currently stored abroad, subject to return, treatment of radioactive waste abroad or intermediate level waste (ILW)/high level waste (HLW) from reprocessing.

Guidelines – Inventory reporting

Reporting of future prospects

Spent Fuel

Total expected quantities (tHM, number of assemblies) of spent fuel from reactors under operation, including from research reactors if return is not envisaged, and from new build (lifetime assumptions to be given) for relevant time horizons (e.g. 2030, 2050, etc.).

Thanks for your attention