Consolidation and implementation of ARTEMIS Review Service

Technical Meeting on
Peer Reviews and Advisory Services in the Areas of Nuclear Safety and Security

29-30 June 2020

Gerard BRUNO – Mathilde PREVOST
Radioactive Waste and Spent Fuel Management Unit
Waste and Environmental Safety Section
Division of Radiation, Transport and Waste Safety
Department of Nuclear Safety and Security
Content

1. Brief overview/history of the service. Purpose/objectives of the service,
2. Authorities involved in the service,
3. Basis of the service (coverage of standards/guides)
4. Recent usage of the services and Requests of services
   - time frame last 3 years and forward look to next 18 months commitments
5. Improvements in the service since last TM in 2017
6. Lessons learnt in last three years (this is not outcomes for MS – but lessons for improvements in efficiency and effectives, and perhaps feedback from MS on usefulness)
7. Recommendations from OIOS (or others) received on services
8. Evaluation of feedback carried out and changes proposed, made, and to be made, in services for incorporation of feedback
9. Linkages with or impacts on, other services, including services in NE
10. Conclusion
11. Thank you slide/any other info (such as promotion of future activities)
1. Brief overview/history of the service

2010: initiation of the development of a policy for review services in the area of RWM

2011: first document prepared in coordination with NE and NS on the scope of the service

February 2013: the Concept paper shared with NSRW and NEFW Directors

End of 2013: Launch of ARTEMIS

Integrated Review Service for Radioactive Waste and Spent fuel Management, Decommissioning and Remediation
2. Authorities involved in the service

ARTEMIS reviews are tailored according to:

- The need of MS
- The potential Requesting Body: operator, national government, regulatory body, operating organizations and the supply chain
- The scope of the review:
  existing or planned frameworks, activities and facilities. safety related or technology related
- The domains and topics
Peer Review Domains

- National policy, framework and strategy
- Decommissioning
- Predisposal
- SNF management
- Disposal
- Remediation

Topics

- Policy and framework
- Strategy/programme
- Inventory
- Concepts, plans and technical solutions
- Safety
- Costs and Financing
- Expertise, training and skills
- Other topics as needed
3. Basis of the service

- Bases on Safety Standards → Requirements!
- International good practices
- Technical guidance - NE Series adequate to the needs
- May consider other documents of relevance – TECDOCs, Safety Reports, etc., as needed
4. Recent usage of the services and Requests of services

- **Poland**: October
- **France**: January
- **Bulgaria**: June
- **Spain (combined with IRRS)**: October
- **Estonia**: March
- **Latvia**: December
- **Germany (back to back with IRRS)**: September

**Reviews as required by the 2011/70/EC Directive**

- **2017**
  - **SOGIn Italy**: July

- **2018**
  - **SOGIn Italy**: June
  - **Electronuclear Brazil**: October

- **2019**
  - **Other reviews**

**Scope**
- National policy, framework & strategy
- Decommissioning
- Pre-disposal
- Disposal
Foreseen ARTEMIS Review Missions

Still not requested: Belgium, Italy, Portugal, UK

Cyprus October?
Romania November?
Hungary Q2
Slovakia February
Croatia Q3/Q4
Ireland Q3
Lithuania Q2
Slovenia Q2/Q3
Denmark January
Finland ?
Malta Q3/Q4
Austria Q3/Q4
Czech Rep Q3/Q4
Sweden Q2
Netherlands Q1/Q2
Greece ?

Reviews as required by the 2011/70/EC Directive

2020 2021 2022 2023

Other reviews

Japan October
Australia (scope & date under dialogue)
Uzbekistan ?? / scope tbc
National policy, framework & strategy
Decommissioning
Pre-disposal
Disposal
5. Improvements in the service since last TM in 2017

- **Consolidating the guidelines:**
  - March 2017: version 1.0 of the guidelines
  - April 2017: workshop to present the guidelines and the methodology of the review process and self-assessment to MS.
  - Version 2.0 is under progress taking into account feedback from experts, MS, EC...

- **Developing a pool of competent experts:**
  - Consolidation of pool of experts from ENSREG and IAEA
  - Development of reference training material;
  - 4 training courses for experts for participating in ARTEMIS Reviews have been conducted (45 experts trained)
  - Briefing for IAEA coordinators

- **Gathering experience feedback from the Peer Reviews:**
  - Establishment of feedback mechanism and starting collection of feedback from the missions in 2017;
  - Meeting for Exchange of Feedback from the first ARTEMIS reviews, organized 14 to 15 November 2018, after the first five ARTEMIS missions concluded (including the joint mission with IRRS to Spain) (attended by 14 representatives from 11 Member States and the European Commission)
  - Workshop on the collection of feedback from the ARTEMIS missions organized from 4th to 7th March 2019 (attended by 65 representatives from 37 Member States and the European Commission)

- **Maintenance and upgrade of the ARTEMIS platform on IAEA Global Nuclear Safety and Security Network (GNSSN) Website**
6. Lessons learnt in last three years

Preparation of Peer Reviews
- Suggestion to have at least one team member familiar with the region (or from the region);
- Guidance on selection of relevant pieces of documents for translation (if into English) for ARM
- Value of knowing self-assessment questionnaire ahead of time;

Run of Peer Reviews
- Allow time to revise the preliminary findings (during the mission);
- Inclusion of complimentary topics while discussing scope of the mission (e.g. decommissioning)
- Guarantee the independence of the review process

Follow-up of Peer Reviews
- Making mission reports publicly available is recognized of value; the decision on this aspect is left to the discretion of the Member State;
- The way of addressing the mission findings is also at the discretion of the Member State (e.g. Action Plan); experience also shows that there is expectation on the national side that findings are addressed;
- A mean for facilitating direct networking between Member States to support implementation of mission outcomes is of interest
- Importance of follow-up missions

Combined IRRS-ARTEMIS missions
- Further streamlining for the review between the team(s)
- Rigorous planning and communication are key to benefit from potential synergies
- Considering how both parts of team can be further integrated
- Many MSs are exploring this option and seek better understanding of pros & cons
7. Recommendations from OIOS

• The 2016 Programme Evaluation Report from OIOS evaluated
  – the Agency’s Global Support to Radioactive Waste Management
    No recommendation linked to ARTEMIS
  – the Agency Integrated Regulatory Review Service
    Recommendation 1 impacted ARTEMIS and ARTEMIS was given as an example

*Recommendation 1: The Secretariat should develop a concept for interchangeable modules of Agency review missions, which should deliver flexibility and improve integration of review services to Member States, by ensuring that the topics/questions are not duplicated across missions/advisory services.*
8. Evaluation of feedback carried out and changes proposed

- Development of topical self-assessment questionnaires
- Establishment of a database of Good Practices
- Creation of a task force on combined missions
9. Linkages with or impacts on, other services, including services in NE

• ARTEMIS is a joint NE-NS Review Service
  – Cross-cutting issues
  – Integrated approach of NS and NE
• Link with IRRS, on-going discussions on optimization
Considering an ARTEMIS review in 2021 or later?

This is the right time to place official request.
Contact : ARTEMIS.Contact-Point@iaea.org

Thank you

https://www.iaea.org/services/review-missions/calendar