Agenda Item W4.2
– For information –

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Presentation contents:

- Reminder – what is ARTEMIS
- Record of status reported at 44th WASSC meeting
- Activities held since 44th WASSC
  - Missions
  - Collecting feedback from reviews
- Schedule of missions
- Path forward
Review Service of IAEA in the fields of radioactive waste & spent fuel management, decommissioning and remediation

For all IAEA Member States, organizations and entities responsible/involved in the above areas

Based on IAEA documents and methodologies – primary basis for Recommendations, etc.: Safety Requirements, supported with other Standards, technical guidance, good practices

Integrated approach of the in-house experience – Department of Nuclear Safety & Security and Department of Nuclear Energy

https://gnssn.iaea.org/main/ARTEMIS
What is ARTEMIS?

Peer Review Domains

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

Topics

- Policy and framework
- Strategy
- Inventory
- Concepts, plans and technical solutions
- Safety
- Costs estimates and Financing
- Expertise, training and skills
- Other topics as needed
Graded approach for:
- size of review team
- duration of mission
- scope of review

Flexibility in:
- type, shape and form of reference material and outcomes of self-assessment – no templates

Providing consistency & reducing workload:
- through size of Team & duration of mission
- user friendly self-assessment, if needed
- recognition of other reviews, if needed

https://gnssn.iaea.org/main/ARTEMIS
Record of status reported at 44th WASSC (13th – 16th Nov 2017)

→ Workshop 10th to 13th April 2017
  → Workshop objective, sessions, collected feedbacks & key messages

→ Briefings for experts
  → Long-term development of resources to support experts (briefings & trainings)

→ Collecting feedback from reviews
  → Mechanism
Activities held since 44th WASSC:
- collecting feedback
- feedback meeting 14th – 15th November 2018
- improvement of ARTEMIS Platform on GNSSN
- ongoing implementation of reviews
Mechanism for collecting feedback from reviews:

- Experts, including Team Leader – entire review process, at latest: end of mission/shortly after
- Member State Counterpart(s) reviewed – after finalizing report
- IAEA Coordinators – debrief after return from mission

Objective:

- To further improve ARTEMIS in methodological and operational aspects
Collecting feedback from reviews

Meeting 14th – 15th November 2018

Scope & Objective:

• Discuss feedback collected from the first five reviews under domain of national policies, strategies & frameworks, to further improve ARTEMIS in methodological and operational aspects
• This feedback was compiled, anonymized and presented to experts for support of discussions
• Considering reviews to Poland, France, Bulgaria, Luxembourg and Spain (joint with IRRS), as required by 14(3) of 2011/70/EURATOM Directive (obligation for international peer review)
• Representatives of each Team invited

Discussed collected observations, comments & suggestions for improvements in:

• preparatory phase,
• review mission,
• formulating outcomes (recommendations, suggestions & good practices) & drafting the report,
• logistic improvements,
• web resources

IAEA is currently compiling the outcome and will seek adequate space for implementation
Improvement of ARTEMIS on GNSSN

Objective:
• To improve functionality of workspaces for the Review Teams & Counterparts;
• To improve administrative functionality (assigning users, etc.);
• To improve security.
Current ARTEMIS schedule:

- At WASSC 44th (Nov 2017): 11 official requests with 3 missions conducted
- Currently: 20 official requests
- Domain: national policy, framework & strategy
  - 2017: Poland*
  - 2018: France*, Bulgaria*, Luxembourg*, Spain* (together with IRRS)
  - 2019: Estonia*, Germany*, Romania*, Latvia*
  - 2020: Denmark*, Cyprus*
  - 2021: Hungary*
  - 2022: Slovenia*, Sweden*
  - 2023: Czech Republic*
- Domain: decommissioning
  - 2017 and 2018: Italy (SOGIN)
- Domain: predisposal
  - 2018: Brazil
- Domain: disposal
  - Australia (scope & date under dialogue)
- Early requests (details tbd): Uzbekistan

* - reviews as required by the 2011/70/EC Directive

Season for official review requests for 2020 and beyond currently open
Path forward

→ Addressing feedback and introducing improvements
→ Implementation of reviews
→ Continued collection of feedback from reviews for further improvements
→ Ensuring availability of experts and their familiarity with ARTEMIS reviews, as well as exchange of experience
→ Maintenance & operational improvements of ARTEMIS Platform on GNSSN
  https://gnssn.iaea.org/main/ARTEMIS

→ Welcoming subsequent review requests from our Member States
→ Briefings for teams:
  → 2 teams in January 2019; next teams later in 2019
→ Workshop from 4th to 7th March 2019

ARTEMIS.Contact-Point@iaea.org
Thank you!
ARTEMIS recognized as useful and beneficial for all MSs regardless of the size of programme or volume of waste and/or spent fuel

Its flexibility, adaptability and graded approach was appreciated – ARTEMIS can serve various needs of MSs (also very specific)

Flexible and optional self-assessment ARTEMIS also appreciated

Scoping of a review in a cross-cutting manner over domains recognized as very important (e.g. predisposal - often linked to disposal strategy and solution)

Peer review may have immediate and long-term benefits

With optimal timing (e.g. certain milestone in decision-making) and properly targeted scope it can:

- provide independent second opinion on proposed solutions,
- increase confidence in proposed project/activity or programme and
- support decision-making process

It is particularly useful and needed when there is not sufficient national experience or competencies (first-of-a-kind project or facility)
Briefings for experts

Scheme developed in 2016 – gradual collection of experience towards developing a generalized training event

➢ Prerequisite: occurrence of multiple reviews of similar character, e.g.: many requests for review of e.g. near-surface disposal facility/plan, etc.

Prime identified need for multiple reviews of similar character: EU region, for the reviews as required by 2011/70/EC

➔ Recently, two targeted briefings held, as pilot cases, for:
  - Team for ARTEMIS in Poland – before departure for mission;
  - Team for ARTEMIS in France – at the beginning of documents review
  - Broader training to be organized next year