

**Sixth Review Meeting**  
**Joint Convention on the Safety of Spent Fuel Management**  
**and on the Safety of Radioactive Waste Management**

**21 May – 1 June 2018**

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**Country Group 7**  
**Rapporteur's Written Report**

**Bengt Hedberg, SSM, Sweden**



# Greece – General Information 1(2)

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- Countries of CG7 being present:  
~~Brazil, Gabon, Greece, Montenegro~~, Nigeria, Romania, Ukraine, United Arab Emirates, Viet Nam
- Other CPs being present:  
China, US, France, Republic of Korea, Euratom, South Africa
- In total 18 questions asked:  
Brazil, Montenegro, Romania, *Slovakia*, Ukraine, United Arab Emirates, *USA*

# Greece – General Information- 2(2)

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- National context
  - Sources for generation of SF and RW
    - 1 research reactor, GRR-1, in extended shutdown at the National Center for Scientific Research (NCSR), “Demokritos”, Athens.
    - Disused sealed sources
  - Country specific aspects
    - One central storage facility for radioactive waste
    - Arrangements for shipment back to US of final consignment of research reactor fuel are under preparation.

# Greece – Overview Matrix

Type of Liability	Long Term Management Policy	Funding of Liabilities	Current Practice / Facilities	Planned Facilities
<b>Spent Fuel (RR)</b>	Return to country of origin	Government	Irradiated fuel in wet storage at GRR-1	None
<b>Nuclear Fuel Cycle Waste</b>	NA	NA	NA	N
<b>Application Wastes</b>	On-site storage, decay and release for short half-lived waste Longer half-lived waste is stored until final disposal solution is determined	Licensee, Government	On-site storage, decay and release for short half-lived waste Longer half-lived waste is stored until final disposal solution is determined	National RW Storage and Management Facility Options for disposal to be investigated
<b>Decommissioning</b>	Decommissioning waste stream to be included in the national program waste streams Decommissioning plan is required by law	Licensee, Government	No plans have been submitted	
<b>Disused Sealed Sources</b>	Return to the manufacturer Orphan sources are stored in the National RW Interim Storage and Management Facility until final disposal	Licensee, Government	Return to the manufacturer Orphan sources are stored in the RWIS	National RW Storage and Management Facility Options for disposal to be investigated

# Greece – 5<sup>th</sup> RM challenges follow-up

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- *Implementation of National Program (NP) road map*
- The NP was formalised by a Ministerial Decision in 2015, stating that activities should start in 2017. Key milestones are:
  - appointment, composition and functioning of the National Committee for Radioactive Waste Management (EEDRA);
  - updated and verification of the Inventory and Classification of RW;
  - establishment of the National Temporary Storage and RWM facility;
  - project for the identification, collection, and export for recycling of radioactive sealed sources and radioactive materials;
  - decisions on national options for management and disposal of RW waste
- *Decommissioning Plan for the GRR-1*
  - There are no plans for the future of the reactor yet, so a DP has not been developed. Future waste streams roughly estimated and included in NP

# Greece – Developments since 5<sup>th</sup> RM

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- New legislation for updating the internal organization of the EEAE, which takes into consideration the findings of the IRRS mission, is in its final stage of governmental approval;
- A number of legislation documents were issued pertaining to radioactive waste management regime;
- Completion of transposition of the new European Basic Safety Standards (EC Directive 2013/59/Euratom), leading to extensive update of existing regulatory and legislative framework. Primary legislation has been developed, public consultation completed, and is currently in the final stages of promulgation.
- Actions taken to improve transparency and communication with the public

# Greece - 5<sup>th</sup> RM overarching issues follow-up

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1. Staffing, staff development, reliability of funding, and other human resource areas;
  - Greece provided in the National report information on human and financial resources.
2. Maintaining, or increasing public involvement and engagement in waste management, to provide public confidence and acceptance;
  - Greece provided in the National report information on public involvement and engagement in waste management.
3. Developing and implementing a holistic and sustainable management strategy for radioactive waste and spent fuel at an early stage; and
  - Not specifically discussed in the National Report but discussed during the country group session.
4. Management of disused sealed sources
  - Greece provided in the National report information on management of disused sealed radioactive sources.

# Greece – General discussions

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- Issues being discussed:
  - Timing and efforts to develop and implement a RW disposal facility
  - Rationale and justification for time limit of 10 years for storing sources
  - Financing scheme and arrangements for management – including repatriation - of disused sealed sources
  - Justification for policy to repatriate SF from research reactor rather than disposing in Greece
  - Rationale behind option to export waste
  - Legal requirements for decommissioning plan in relation to current status, i.e. no decommissioning plan yet submitted to the regulator, EEAE
  - Reliability of plans for repatriation of SF from research reactor
  - Background and rationale for setting up of the National Committee for Radioactive Waste Management (EEDRA)
  - Services provided by Government and other entities
  - Plans for revisions/improvements to legal framework for management of NORM waste
  - Publication of evaluation and inspection reports

# Greece – Summary of discussions

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- Points of disagreements
  - None

# Greece – Challenges

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- Implementation of the National Program for radioactive waste and definition of the up-to-end management option for each waste stream, including the establishment of the decommissioning plan for the Demokritos research reactor

# Greece – Good Practices

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- None

# Greece – Areas of Good Performance

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- Significant efforts have been undertaken for improving openness and transparency and communication with the public.

# Greece – Suggestions

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- None

# Greece – Planned Measures to Improve Safety

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- Improvements of safety of the existing storage facility
  - format and content of the safety documentation
  - a safety analysis including an accident analysis, and specification of the waste acceptance criteria;
  - quality management