



Report on Planned Activities for 2016-2017

The Forum of Nuclear Regulatory Bodies in Africa

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Content

For each of the 10 Thematic Working Groups:

1. *Key messages*
2. *Activity in 2016 and proposals for scientific FNRBA reports for the website*
3. *Proposed Activities for 2017 addressing the needs from the gap analysis*

TWG	Activity
TWG-1	Upgrading Legislative and Regulatory Infrastructure
TWG-2	Upgrading of Radiation Safety in Radiotherapy
TWG-3	Regulatory Framework for Licensing of NPP
TWG-4	Upgrading of Radiation Safety in Uranium Mining and Milling
TWG-5	Upgrading of Nuclear Safety in Research Reactor
TWG-6	Education and Training, and Knowledge Management
TWG-7	Upgrading of Radioactive sources and Waste Safety Management Infrastructure
TWG-8	Upgrading of Transport Safety
TWG-9	Emergency Planning and Response
TWG10	Nuclear Security

TWG 1 – Regulatory infrastructures

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Key messages

- Strengthen the **regulatory infrastructure for radiation and nuclear safety** in the Member States to provide bases for implementation of the activities for the other TWGs related to radiation and nuclear safety.
- In spite of the achievements of the past there are still a lot of issues and challenges in this area that need be addressed.

Activities of 2016

- **Regional Workshop on Control of Radiation Sources organized by KINS**
21-25 November 2016, Mombasa, Kenya

TWG 1 – Regulatory infrastructures

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Proposed activities for 2017

- (i) To develop (together with TWG2) a **Guide for Regulatory Bodies on Licensing of Radiotherapy Facilities**
- (ii) To organise a **meeting for high level decision makers** on the importance for their support to regulatory bodies.
- (iii) To organise a **workshop for Heads of regulatory bodies in Africa** to discuss the issue of sustainability of the regulatory infrastructure in the region.

TWG 2 - Radiotherapy

Key messages

- By 2030, according to the IARC of WHO new cancer cases in Africa will increase to 1.4 million cases each year with one million people dying due to the disease.
- About 80 per cent of Africa's one billion people currently have no access to radiotherapy which is essential for treatment in at least 60 per cent of cases.
- Radiotherapy facilities requires sophisticated equipment, special shielding rooms, careful planning and special design to ensure that it provides Radiation Protection and safety to the patient worker and to the public.

TWG 2 - Radiotherapy

Proposed activities for 2017 jointly with TWG1

- Training programme to Increase technical capability and develop model regulation
- Arrangement of regional workshop to share experience among the MS
- Explore the possibility to designate the Regional training center for Regulatory Body on RT
- Expert mission based on the specific need of MS

TWG 3 - Licensing

Key messages

- The countries are at different stages of commitment to nuclear power and development of safety infrastructure.
- There is therefore the need to develop model regulations to assist participating countries as well as for harmonization and convergence in the regulatory standards in the region.
- The TWG3 is in appreciation of US NRC support for most of our activities, as well as KINS and IAEA.
- We are however open to support from other international and experienced regulatory bodies.

TWG 3 - Licensing

Activities in 2016

- Workshop on Licensing Process ,18-21 April 2016, Mombasa, Kenya.
- Small Modular Reactor Safety and Licensing Workshop,07-10 June 2016, Vienna, Austria.
- Revised survey on the status of legal framework, principal regulatory standards and safety goals applicable to NPPs.
- Developed new survey on Regulatory Infrastructure for milestone 2 based on IAEA SSG16

Publications

- a) Report of the TWG3 coordination meeting, 22 April 2016, Mombasa, Kenya.
- b) Historical survey reports

Proposed activities for 2017

- Promote the development and implementation of Management Systems in all the regulatory bodies in Africa
- Promote the use of Regional Experts in international activities
- Promote the implementation of nuclear law based on the IAEA Nuclear Law Handbooks

TWG 4 – Safety of Uranium mining and milling

Key messages

- To enhance safety and sustainability of uranium mining and milling through FNRBA.
- To improve communication and regional collaboration amongst regional regulatory bodies
- To share regional resources and capability in supporting licensing and oversight of uranium mining and milling activities

Activity for 2016

- Workshop organised by ENSTTI For TWG4 Safety of Uranium Mining and Milling
Pretoria, South Africa Nov.28-Dec.2, 2016,

TWG 4 – Safety of Uranium mining and milling

Proposed activities for 2017

- Regional workshop to update the status and development of the actions plans
- Regional training course for safety infrastructure of uranium production
- Regional workshop on development and review of safety assessment for uranium mining and milling

TWG 5 – Safety of Research Reactor

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Key messages

- Need to enhance the assessment and inspection capabilities of the regulatory bodies and improve the role and responsibilities of the safety committees at RRs
- Need for combined efforts of the FNRBA and TWG5-RRs to address and seek support in this endeavour

Activities in 2016

- WS on Safety Reassessment of Research Reactors following the Feedback from the Accident at the Fukushima Daiichi Nuclear Power Plant, 5-8 September 2016, Vienna;
- Annual meeting of the Regional Advisory Safety Committee for Research Reactors in Africa (RASCA), focusing on developing and updating of preliminary decommissioning plan, and the safety of core conversion of NIRR-1, 22-26 August 2016, Nigeria;
- Workshop on safety reassessment of research reactors in light of the feedback from Fukushima-Daiichi accident, 5-8 September, Vienna;
- Coordination Meeting of Regional TC Project RAF1005, 13-16 September, Tanzania;
- Regional Meeting on Application of Code of Conduct on the Safety of Research Reactors, focusing on development of safety documents and regulatory review and assessment, 14-18 November 2016, Egypt.
- [Proposed link](#) to SSR-3 SAFETY OF RESEARCH REACTORS

Proposed activities for 2017

- A workshop on establishing regulatory inspection programme for research reactors
- A workshop on review of national action plans on human resources development for research reactor regulatory bodies ;
- Arrange for support for members to start with establishing the technical safety requirements in their national regulations.

TWG 6 - Education and Training

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Key messages

- Need for Training and sharing of experience amongst Nuclear Regulators for providing adequate safety and security in the use of nuclear material and radiation sources in various practices .
- No central platform for sharing information and regulatory knowledge and experience within the African Region
- Establish an effective regional capacity building system or platform

TWG 6 - Education and Training

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Activities in 2016

- Contact person of TWG6 will liaise with IAEA Secretariat and workshop organizer to put all materials of workshops on FNRBA website
- Education and Training Regional centres established (Egypt, Ghana, Nigeria ,Morocco)
- Regional Workshop on National Nuclear Safety Knowledge Platforms, Vienna, Austria, 13 to 17 June 2016
- Workshop to be organised by KINS on Basic Professional Training Course BPTC, Mombasa Nov.28-Dec.2

TWG 6 - Education and Training

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Proposed activities for 2017

Regional Capacity Database

- Develop regional strategy for capacity building through competency mapping at national, institutional and individual level
- Conduct Education and Training on Review Services through capacity building self assessment

Workshops

- Regional Workshop on review of safety analysis Report
- Conduct gap analysis and develop strategy for filling up the gaps
- A workshop on review of national action plans on human resources development for research reactor for regulatory bodies
- Develop database of regional experts and training centre
- Regional Workshop on effectiveness of review of safety analysis Report

TWG8 - Transport Safety

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Activities in 2016

Past project RAF-9046: SARIS/RASIMS Questionnaires
First school of drafting transport regulations
Update of training material

Current RAF-9060: First Coordination Meeting
Second school of drafting transport regulations
Objectives: Building competent authority for effectively regulating the transport of radioactive material

Proposed activities in 2017

Identify a team of regional experts on safe transport of radioactive material to assist African countries on regulatory oversight and for training.

This activity would include:

- Selection of potential candidate experts
- Reinforcement of knowledge of transport regulations
- Building capacity for regulatory oversight for transport of ra materials
- Practical exercise on teaching
- Final conformation of the team according to personal performance
- Follow up to maintain/improve the capability of the team

⇒ **A dedicated page for RAF-9060 will be developed under FNRBA TWG8**

TWG 9 – Emergency Preparedness and Response

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Key messages

- Diverse scope and level of EPR for facilities and activities within the region
- Gaps in Regulations, NREP, Regulatory Response exist
- Alignment with IAEA through regional projects (RAF9052, RAF9055)

Activities in 2016

- Workshop on Emergency Preparedness and Response and Radiation Safety in Daejeon, to be organised by KINS Republic of Korea Oct.31-Nov.8, 2016,
- Workshop on Emergency Preparedness and Response to be organised by ENSSTI with the support of the European Commission in Pretoria, South Africa Nov.21-25, 2016

Publications

- Survey on EP&R infrastructures

TWG 9 – Emergency Preparedness and Response

Proposed activities in 2017

- Present for adoption EPR Model Regulation to Member States
- Workshop on Siting for Embarking Countries
- Emergency exercises scenario, planning and evaluation
- RTC Incident and Emergency Communication
- NTC for first responders
- Expert Missions on Policy, Legislation and Interim Capability
- EPREV Mission reviewers
- Regional Workshop on the development of Regulatory Procedures

TWG 10 – Security

Key messages

- Nuclear security regime is a national responsibility. Each State is responsible for establishing, implementing and sustaining its national nuclear security infrastructure.
- The nuclear security activities are managed through the Integrated Nuclear Security Support Plans (INSSP) developed with assistance of the IAEA Division of Nuclear Security (NSNS)

Activity in 2016

- Regional Workshop on Human Resource Development, Accra, Ghana (for English speaking countries in Africa), July 2016
- Regional Workshop on Human Resource Development, Dakar, Senegal (for French speaking countries in Africa), scheduled for November, 2016
- Regional Meeting on Nuclear Security Information Exchange and Coordination, Arusha, Tanzania, scheduled for November, 2016
- Regional Workshop on National Response Plan for Nuclear Security Events - Methodology and Capability, Accra, Ghana, scheduled for November, 2016

TWG 10 – Security

Proposed activities in 2017

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- Regional Workshop to launch project on enhancing national regulatory frameworks for nuclear security in African States is planned for February 2017 in Rabat, Morocco
- Sub-regional Training Courses, one in French and one in English language:
- Workshop on Legislative and Regulatory framework to address detection and response, threat assessment and physical protection
- Technical assistance through expert missions and/or equipment installation.
- Cooperation in Detection and Response and Transport security

Thank you for your attention....

