



FNRBA Development Progress and Work Plan 2015

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Bodies in Africa (FNRBA)



FNRBA

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INTRODUCTION

1. Creation of FNRBA

FNRBA's Charter adopted at the coordination Meeting of AFRA project RAF 9/038 on self-assessment held on 23-27 March 2009, in Pretoria, South Africa

Immediately the Forum entered into force, with 23 members.

15 September 2009, Vienna, Austria: 3 new members registered.

27 May 2010 in Nairobi, Kenya : 3 new members again.

May 2013 in Tunisia, 1 new member.

Total of 30 regular members.



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INTRODUCTION

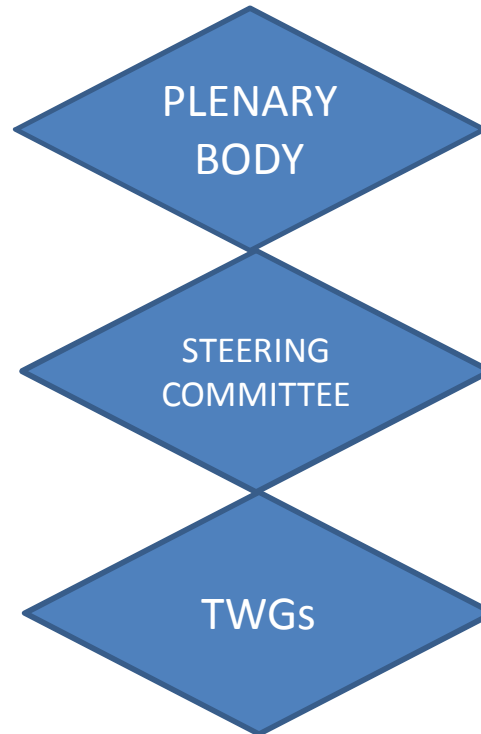
2. FNRBA Goals

- **Goal 1:** To promote the establishment of regulatory infrastructure in all countries of the Region
- **Goal 2:** To enhance the national regulatory systems to be compliant with or compatible with IAEA standards
- **Goal 3:** To Develop and promote a framework for capacity building in areas of radiation and nuclear safety and security.
- **Goal 4:** To create an opportunity for mutual support and coordination of regional initiatives by leveraging the development and utilization of regional and international resources and expertise.

The **Forum** is open to all Nuclear Regulatory Bodies in the region and it is **voluntary**.



3.FNRBA: ORGANS



The plenary meeting is organized once a year

The steering committee meets twice a year in the region or outside the Africa region;

The TWGs meet as planned



FNRBA: SC

Responsibility	Name	Country
Chairman	Mr. Augustin SIMO	Cameroon
Deputy Chairman	Prof. Dr. Mohamed Reda Ezz El-Din	Egypt
Secretary	Dr. Yau Idris	Nigeria
Deputy Secretary	Mr. Faradally A. Ollite.	Mauritius

Sub-Region	Sub-Regional Coordinator	Country
North Africa	Pr Azza Hammou	Tunisia
Southern Africa	Mr. Alex Tibinyane	Namibia
East Africa	Mr. Joël Karigi Kamande	Kenya
West Africa	Mr. Nagantie Kone	Mali
Central Africa	Mr. Marc Kaniki Kakule	DRC

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FNRBA TECHNICAL WORKING GROUPS (TWGs)

TWG	Title
TWG-1	Upgrading Legislative and Regulatory Infrastructure
TWG-2	Upgrading of Radiation Safety in Radiotherapy (Tunisia)
TWG-3	Regulatory Framework for Licensing of NPP (South Africa)
TWG-4	Upgrading of Radiation Safety in Uranium Mining and Milling (Namibia)
TWG-5	Upgrading of Nuclear Safety in Research Reactor (Ghana)
TWG-6	Education and Training, and Knowledge Management (Nigeria)
TWG-7	Upgrading of RS and Waste Safety Mngmt Infrastructure (Tanzania)
TWG-8	Upgrading of Transport Safety
TWG-9	Emergency Planning and Response (South Africa)
TGW10	Nuclear Security (Egypt)



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I. REGIONAL PRIORITIES

Radiation Sources	Uses	Countries concerned	Regulatory Challenges
X Ray Generators	Medical, Industrial, Research	All	Poor maintenance and QC
Sealed Radioactive Sources	Medical, Industrial Research	All	Source Registry, Transboundary movement, Transport, Waste
Research Reactors	Education, Isotope and neutron production	9 RRs for 7 countries	Inspection, Safety
NPP	Electricity production	1	Safety, emergency
NPP projects	Electricity production	More than 10	Regulatory Body responsibilities



I. REGIONAL PRIORITIES

Effectiveness of Regulatory Bodies for Nuclear and Radiation Safety

Countries with legislation and regulation not implemented

Legislation and regulations not consistent with international standards

Regulatory body exists but with poor resources (HR, financial) to discharge its regulatory functions

Regulatory body exists but NOT effectively independent from promotional organizations



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II. FNRBA ACHIEVEMENTS

FNRBA Meetings

Plenary Meeting	Venue	Date	Observations
1 st	Pretoria, South Africa	27 March 2009	Implemented as scheduled
2 nd	Nairobi, Kenya	27 May 2010	Implemented as scheduled
3 rd	Bamako, Mali	31 March 2011	Implemented as scheduled
4 th	Yaoundé, Cameroon	29 March 2012	Implemented as scheduled
5 th	Tunis, Tunisia,	21-23 May 2013	First plenary meeting with 3 days agenda
6 th	Port Louis, Mauritius		Postponed

The 10th Steering Committee meeting organized in Douala, Cameroon, on 26-28 May 2014

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II. FNRBA ACHIEVEMENTS

International Cooperation

- IAEA TC: RAF9038 ; support to the creation of the Forum in 2009; and promotion of establishment of RB in MS; on-going project RAF9049 to sustaining RB in Africa.
- **IAEA – GNSSN: FNRBA website established, including MS web pages.**
- **US-NRC: Several training activities related to NPP, emergency preparedness, nuclear safety, inspection, ..etc.**
- KINS: MoU signed in 2010; implemented since 2012 on the basis of 2 training events organized each year.
- **IAEA: Practical Arrangements signed in 2013 to support the enhancement and strengthening of the radiation protection, nuclear safety and security, and regulatory infrastructure in MS which are members of FNRBA.**
- TAMU: LOI signed in 2013



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III. FNRBA 2015 WORK PLAN

N°	Activity	Venue	Target Date	Sponsor
	MANAGEMENT			
1	Plenary Meeting			
2	Steering Committee Meeting			
3	Coordination Meeting			
4	CS on drafting an integrated safety evaluation Exercise			
5	CS on drafting FNRBA strategic Action Plan 2015-2020			

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III. FNRBA 2015 WORK PLAN

N°	Activity	Venue	Target Date
	NUCLEAR SAFETY		
6	Basic Professional Nuclear Safety Training Course		
7	Workshop on radioactive sources management for French speaking countries		
8	Workshop on Developing Education and Training Strategies		
9	Workshop on SharePoint Application and Management for the Website of the Forum of Nuclear Regulatory Bodies in Africa		
10	Workshop on Building and Retaining Capacity in Nuclear Safety through Knowledge Management		
11	Workshop on Waste Management and the Safe Disposal of Radioactive waste		
12	Workshop on Using the Self-Assessment of Regulatory Infrastructure for Safety Methodology		
13	Workshop on the Regulatory Framework for Nuclear Power Plants		
14	Workshop for Regulators on the Inspection of Research Reactors		
15	Regional Workshop on Using FNRBA Web Site by MS to Share Experiences on RASIMS and SARIS		
16	Regional workshop on Management of Safety for Regulatory Body's	Sudan	Q4 of 2015
17	Training workshop on Design Requirements and Reviews for NPPs	TBD	Q1 or 2 of 2015



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III. FNRBA 2015 WORK PLAN

N°	Activity	Venue	Target Date	Sponsor
	NUCLEAR SECURITY			
18	Regional Workshop on enhancing nuclear security culture	Yaounde, Cameroon		
19	Regional Workshop on Drafting National Strategy Plan for Detection	Tunis, Tunisia		
20	Regional Workshop on Developing regulation Related to Nuclear Security	Cairo, Egypt		
21	Regional Workshop on Using FNRBA Website by Member States to Share Experiences on INSSP and NUSIMS (Egypt already agreed to host event on the same subject within 2015 for Arab countries)	Cairo, Egypt		
22	High Level Regional Seminar to Sensitize on Nuclear Security	Addis Ababa, Ethiopia		
23	Sub-Regional Workshop on Threat Assessment Related to Nuclear Security	Kinshasa, DRC		
24	Sub-Regional Workshop on Security Plan for Transport of Nuclear and Radiological Materials	Bamako, Mali		

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III. FNRBA 2015 WORK PLAN

N°	Activity	Venue	Target Date	Sponsor
	EMERGENCY PREPAREDNESS AND RESPONSE			
26	Regional Workshop to develop MS Regulations using FNRBA EPR Model Regulation			
27	Regional workshop on EPR-Exercise2005			
28	Planning and conduct of radiological emergency exercise			
29	Regional workshop to develop regulatory bodies emergency procedures			
30	Regional Workshop on International and Radiological Event Scale (INES)			

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IV. Nuclear Security Challenges

Challenges and Opportunities for Strengthening the Global /Regional Nuclear Security System

Despite progress in recent years toward the goal of securing all usable nuclear materials, there is still no effective global system for doing so. **There are no** common international standards or best practices for nuclear materials security,

no governing body with the necessary mandate and the resources to provide sufficient oversight, and

no mechanism for holding states accountable for lax security procedures.

The agreements, guidelines, and multilateral engagement mechanisms currently in place have numerous gaps and limitations which undermine global security as well as our confidence in the effectiveness of the system.

The challenge then is to strengthen the system, to the benefit of each State individually and for all states globally.



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IV. Nuclear Security Challenges

- The primary responsibility for nuclear security begins with each State. Because any catastrophe involving nuclear material would be global in scope,
- States with nuclear materials and facilities have a responsibility to secure all those materials and build confidence in the effectiveness of their security.
- However, all States—even those without nuclear materials—must work to ensure that their territories are not used as safe havens, staging grounds, or transit points for terrorist operations involving stolen nuclear materials



IV. Nuclear Security Challenges

Proposed TARGET

To Developing Regional Nuclear Security plan

To Developing Regional Nuclear Security plan in 4 phases;

Phase 1: Nuclear Security Culture

Phase 2: Establishing National Nuclear Security Infrastructure

Phase 3: Establishing National Nuclear Security plan

Phase 4: Developing Regional Nuclear Security plan



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IV. Nuclear Security Challenges

Phase 1: Nuclear Security Culture

Implemented through two activities

1. Awareness on Nuclear Security Culture and Identify Specific Security Considerations.

Regional Workshop on enhancing nuclear security culture and Identify Specific Security Considerations for Effective Implementation

2. Self-Assessment or Questionnaire for each country

- to Evaluate the current status of NS ,
(National Needs assessment , information collation and Anaysis)
- Steering committee meeting for action consideration.

Recommended to be implemented at (Q 1, 2015)



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IV. Nuclear Security Challenges

Phase 2: Establishing National Nuclear Security Infrastructure

Implemented through five activities

1. **Capacity Building Development.** Technical Workshops and Training on Requirements and Guidance Issue and Adopt Implementing National Legislation,
2. **Human Resource Development.** Workshops including (general training, Specialized training, training of trainer, on the job training, fellow-ships, technical visits)
3. **Technical and Scientific Support.** Technical Workshops and Training on Equipment Use, Maintenance and Calibration.
4. **Technical and Scientific Support.** Technical Workshops and Training on Providing plans and Methodology to Detect and Recover nuclear and other Radioactive Materials **out of Regulatory Control**).

Recommended to be implemented at (Q 2, Q3, 2015)



IV. Nuclear Security Challenges

Phase 3: Establishing National Nuclear Security plan

Implemented through one activity

Regional Workshop on Exchange of Good Practices and Lesson Learned for Establishing National Nuclear Security plan.

Recommended to be implemented at (Q4, 2015)

Phase 4: Developing Regional Nuclear Security plan (RNSP)

Implemented through two activities

Planning Meeting: International Cooperation, Coordination and Assistance to Developing Regional Nuclear Security plan

Planning Meeting: Finalization of Developing Regional Nuclear Security plan

Recommended to be implemented at (Q 1, Q2, 2016)



CONCLUSION

FNRBA needs for the effectiveness of its Regulatory Bodies for Nuclear and Radiation Safety and security are enormous.

Resources available in the Africa region to implement regulatory activities are drastically limited

Nuclear safety and security being global issues, it is highly recommended that the international community supports establishing, strengthening and sustaining the infrastructure for radiation and nuclear safety and security in Africa.

This support will be more efficient if provided through FNRBA .

The commitment of existing FNRBA partners is very much appreciated.

Lot have been done since 2009, but lot remain to be done to reach high level standards of safety and security in FNRBA MS.

Integrated Nuclear Security Support Plan of The Arab Republic of Egypt

Finalisation and Signature of the Integrated Nuclear Security Support Plan (INSSP)



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THANK YOU

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