



FNRBA

4th GNSSN STEERING COMMITTEE MEETING

30th June - 2nd July 2014

FNRBA DEVELOPMENT PROGRESS

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Forum of Nuclear Regulatory Bodies in Africa (FNRBA)



SCOPE

- **Introduction: FNRBA- Regional Network**
- **FNRBA Organs**
- **FNRBA Technical Working Groups**
- **Main Challenges to Radiation Safety and Security in Africa**
- **FNRBA Membership**
- **FNRBA Meetings**
- **International Cooperation**
- **FNRBA Web Site**
- **FNRBA Work Plan for 2014**
- **Conclusion**



1. INTRODUCTION : FNRBA – A Regional Network

26 March 2009: Establishment of the Forum of Nuclear Regulatory Bodies in Africa (FNRBA) ;

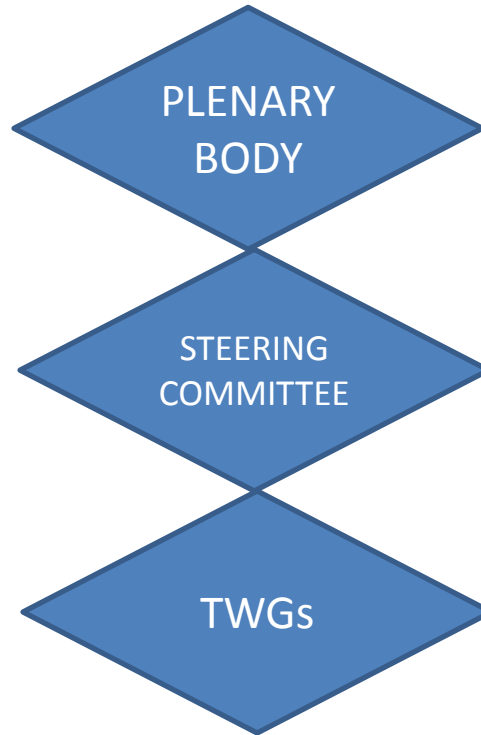
FNRBA = key milestone catalyzing the enhancement, strengthening and harmonization of radiation and nuclear safety and security regulatory infrastructure in member states;

-Effective platform for the exchange of regulatory experiences and practices among the nuclear regulatory bodies in Africa

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



2. FNRBA: ORGANS



The plenary meeting is organized once a year in the Africa region;

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

The TWGs meet as planned



3. FNRBA TECHNICAL WORKING GROUPS (TWGs)

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 Waste Safety Management Infrastructure
TWG-8	Upgrading of Transport Safety
TWG-9	Emergency Planning and Response
TGW10	Nuclear Security



4. MAIN CHALLENGES TO RADIATION SAFETY, NUCLEAR SAFETY AND SECURITY IN AFRICA

Inadequate legislative and regulatory framework

Insufficient Number of Regulatory body qualified staff

Inadequate funding of regulatory activities

Ineffective Networking of African regulatory bodies



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5. FNRBA MEMBERSHIP

26 March 2009 in Pretoria, South Africa: Angola, Burkina Faso, Botswana, Cameroon, Ethiopia, Gabon, Ghana, Cote d'Ivoire, Kenya, Madagascar, Mali, Malawi, Morocco, Namibia, Niger, Nigeria, Senegal, Seychelles, South Africa, Uganda, United Republic of Tanzania, Democratic Republic of Congo, and Zimbabwe, (23);

15 September 2009 in Vienna, Austria: Zambia, Sierra Leone, and Chad, (3) ;

27 May 2010 in Nairobi, Kenya: Sudan, Tunisia, and Mauritania (3);

23 May 2013 in Tunis, Tunisia: Mauritius (1).



6. FNRBA MEETINGS

So far the following plenary meetings have been organized.

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 steering committee is organized twice a year in the region or outside the Africa region.

The Technical Working Groups (9) were established during the 2nd plenary meeting held in Nairobi in 2010.

Later on, one Group on Nuclear Security was endorsed by the 5th plenary in Tunis.



7. INTERNATIONAL COOPERATION

- **MoU with KINS**

Signed on 23rd September 2010 in Vienna

- Agreement on Action Plan 2012: December 2011
- Workshop on Emergency Preparedness and Environmental Radiation Monitoring: KINS, Korea, September 2012
- Workshop on "Safety and Regulation on Radioactive Sources", and "Safety and Regulation on Nuclear Power Plants", planned on November 2012, in South Africa

Several trainings events implemented in 2013 with KINS support.



7. INTERNATIONAL COOPERATION (Cont.1)

Regional AFRA projects of radiation protection: RAF9038 and RAF9049

Practical Arrangements with IAEA

Practical Arrangements between IAEA and FNRBA on cooperation in the area of Strengthening Radiation protection, Nuclear Safety and Security Frameworks in Africa; signed on 17th September 2013 in Vienna

Letter Of Intent with TAMU

Letter of Intent for cooperation between FNRBA and the Nuclear Security Science and policy Institute and the Nuclear Power institute at Texas A&M University and the Texas A&M Engineering Experiment Stations, USA; signed on 18th September 2013 in Vienna

- US NRC

Support provided for training nuclear power development, emergency preparedness, ..etc



8. FNRBA WEB SITE

This web site is presently operational thanks to IAEA-GNSSN and KINS supports.

Key event: Regional workshop on knowledge safety network, Nairobi, Kenya, 14-18 Oct 2013, KINS and IAEA-GNSSN support;

More than 16 African Regulatory Bodies staff have been trained on the use FNRBA website and on the development and updating their country profiles on this electronic platform.



9. FNRBA WORK PLAN FOR 2014

Name of Activity	Suggested Venue	Date	Technical Officer
1. Workshop on Awareness and Security Culture	Morocco		R. Evans
2. Workshop on Establishing National Radiological Security Infrastructures: National Needs and Available Assistance	South Africa		R. Evans
3. Workshop on Radiological Security Staff	Kenya		R. Evans
4. Regional Training Course on Emergency Preparedness and Response Fundamentals	Namibia		M. Breitingger
5. Workshop on Education and Training Review Service Missions and on Developing Education and Training Strategies	Tunisia		M. Moracho
6. Workshop on SharePoint Application and Management for the Website of the Forum of Nuclear Regulatory Bodies in Africa	South Africa		Chaari
7. Workshop on Building and Retaining Capacity in Nuclear Safety through Knowledge Management	Nigeria		Rejane
8. Workshop on Waste Management and the Safe Disposal of Radioactive waste	Tunisia		Yumiko
9. Workshop on Using the Self-Assessment of Regulatory Infrastructure for Safety Methodology	Cameroon		A.Nicic
10. Workshop on the Regulatory Framework for Nuclear Power Plants	South Africa		A.Nicic
11. Workshop for Regulators on the Inspection of Research Reactors	Egypt		A. Shokr
12. Coordination Meeting of the Forum of Nuclear Regulatory Bodies in Africa (FNRBA Plenary Meeting)	Mauritius		L. Guo
13. Regional Workshop on Approaches to Combat Illicit Trafficking in Radioactive Materials	Cameroon		R. Evans



9. FNRBA WORK PLAN FOR 2014 (Cont.)

Regular FNRBA meetings, plenary and SC are, not included.

These activities planned in the work plan 2014 have been proposed in the framework of the Practical Arrangements between IAEA and FNRBA signed in 2013.



10. CONCLUSION: OBJECTIVES OF PRACTICAL ARRANGEMENTS

Under these Practical Arrangements, the Parties have agreed to the following activities :

To support the enhancement and strengthening of the radiation protection, nuclear safety and security, and regulatory infrastructure in IAEA Member States, which are member countries of the FNRBA, as well as the harmonization of best practices among them;

To support capacity building and promote knowledge management in IAEA Member States, which are member countries of the FNRBA, as a key to stimulating human resource development and knowledge transfer;

To collaborate towards supporting the FNRBA's knowledge network and facilitating activities and cooperation with other regional networks; and

To facilitate the participation of African experts in international and interregional workshops as well as in on-the-job training in nuclear organizations and laboratories.



Signature of Arrangements FNRBA- IAEA/DNS VIC, 17 September.

17September 2013

Strengthening Nuclear Safety in Africa: Forum of Nuclear Regulatory Bodies in Africa sign Practical Arrangements with IAEA

[IAEA General Conference](#)



Mr. Denis Flory, IAEA Deputy Director General for Nuclear Safety (left), and Mr. Augustin Simo, FNRBA Chairperson, concluded the agreement on 17 September 2013 during the 57th IAEA General Conference. (Photo: O. Yusuf/IAEA)



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THANK YOU