



# 11<sup>th</sup> Plenary Meeting of the Forum of Nuclear Regulatory Bodies in Africa (**FNRBA**)

IAEA Headquarters, Vienna, Austria, 19th September 2019

## **Annual Report 2019**

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# 1. INTRODUCTION

The Forum on Nuclear Regulatory Bodies in Africa (FNRBA) was established in 2009, to strengthen and harmonize radiation and nuclear safety and security regulatory infrastructures in its member countries, and to enable nuclear regulatory bodies to share experiences and practices.

## **Membership**

FNRBA Members in 2018 : 30

Number of countries in Africa having a law establishing a nuclear Regulatory Body : 38

Number of RB established and operational: 33

## **Governance and Strategic Management**

The plenary meeting is organized once a year;

The steering committee meets twice a year;

The TWGs meet as planned

IAEA provides for FNRBA Secretariat at the Agency, headed by a programme management officer (PMO)

## **2. RECALL AND IMPLEMENTATION OF RESOLUTIONS OF THE 10<sup>TH</sup> PLENARY MEETING**

The last Plenary was held on 18<sup>th</sup> September 2018, in Room C5, on the margins of the 62<sup>nd</sup> IAEA's General Conference.

Resolutions:

1. Annual Report for 2018 was adopted; (**See FNRBA's Website**)
2. Prioritization adopted with need to avoid replicating development of model regulations (by using existing models) (**To be followed up by each TWG**);
3. Current Steering Committee was mandated to serve awaiting receipt of two-thirds endorsement of revised Charter; (**Resolution immediately executed**) and
4. Request be placed for IAEA Director General to write to Members who have not endorsed the Charter to encourage them to endorse the Charter. (**the Agency sent reminders to Permanent Missions in June 2019**)



# September 18<sup>th</sup>, 2018, Plenary Meeting on the sidelines of IAEA GC62



## 3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (1/9)

### Strategic Priorities

**Priority 1 :** Create awareness of, and coordinate activities, amongst political and policy makers and other regional forums and organizations.

**Priority 2 :** Establish an efficient and effective network of human resources supported by an IT platform to ensure sustainable regional strategies for capacity building with IAEA methodologies.

**Priority 3 :** Ensure understanding, develop, promote and implement high standards of radiation protection, nuclear safety and security Member State.

**Priority 4 :** Implement capacity building activities at the national and regional level in radiation protection, nuclear safety and security regulatory infrastructure and framework and promoting sustainable regional cooperation in developing needed human resources.

**Priority 5 :** Harmonize of national plans for emergency preparedness and response, transport safety and security in line with international requirements to facilitate exchange of information and sharing of experiences.

### **3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (2/9)**

**1. October 1st, 2018 : Following AFCONE's Executive Secretary request to share or annual reports and other FNRBA's technical document, FNRBA Chairperson Mr Simo proposed to make available the following documents :**

- ✓ FNRBA SAP,
- ✓ Annual report 2017,
- ✓ Contribution Report (Request to Secretary to provide the last version)
- ✓ Work Plan 2019-2021

**2. IAEA Workshop on the Fundamentals of Regulatory Inspection of Nuclear Power Plants, Vienna Austria**

**3. October 8-12 2018 Accra, Ghana : Organization of ANNuR/FNRBA Annual Meeting on the Safety and Licensing of Research Reactors.**

**4. October 15 to 26, 2018 : Participation to the Joint IAEA-KINS Regional Network Meeting Basic Professional Training Course - Nuclear Safety, KINS, Korea**



### 3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (3/9)

#### 5. November 5-8, 2018 IAEA Symposium on International Safeguards.

The purpose of the symposium is to engage with the safeguards community and key experts on specific strategic issues likely to impact safeguards implementation in the coming decade.

**Regional Network Mixers** were held during which it became obvious that **FNRBA could provide an opportunity to develop capacity of regulatory bodies in Africa in safeguards matters.** AFCONE Executive Secretary called for collaboration with the Forum to **facilitate implementation of Pelindaba Treaty on the African Continent.**

#### 6. November 9th, 2018 : FNRBA Chairperson Mr Simo sent a Letter to the International Regulatory Development Partnership (IRDP) of the United States Nuclear Regulatory Commission (USNRC)

FNRBA Chairperson Mr Simo sent a Letter of Appreciation on behalf of All FNRBA members, to the International Regulatory Development Partnership (IRDP) of the United States Nuclear Regulatory Commission (USNRC) for their continued support to the activities of the Forum in 2018.



### 3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (4/9)

6. November 12 to 16, 2018 : joint workshop : Arab Atomic Energy Agency (AAEA), the Arab Network of Nuclear Regulators (ANNuR) and the Forum of Nuclear Regulatory Bodies in Africa (FNRBA).

10. December 3 to 7 2018 : Participation to the Joint IAEA-KINS Regional Network Meeting on Regulatory Framework and Infrastructure for Nuclear Safety” held in Daejeon (KINS), Korea

The objective of this meeting was to review and provide an overview of the key issues and subjects concerning the **development of an effective and adequate national regulatory framework and infrastructure for nuclear power plants (NPPs)** in line with the relevant IAEA Safety Requirements and **recommendations outlined in SSG-16**, and to provide detailed information and guidance on the **main regulatory tasks** to be conducted during the **licensing of NPPs**.

### **3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (5/9)**

#### **11. December 3 to 7 2018 : Participation in International Conference on the Security of Radioactive Material: The Way Forward for Prevention and Detection Vienna, Austria.**

The purpose of the conference was to foster the exchange of practices and experiences related to the security of radioactive material under regulatory control in use, transport and storage, and to the system and measures for detection of this material out of regulatory control.

#### **12. December 19, 2018 : The website has been revised and updated by Karim with the following inputs :**

- ✓ The contribution report of FNRBA;
- ✓ Annual report for 2017 and 2018;
- ✓ A model regulation for Emergency Preparedness and Response published in English and French;
- ✓ 13th Steering Committee Meeting Report highlighting the signature of the new Practical Arrangements between the FNRBA and the IAEA.
- ✓ The Revised Charter published in English, French and Arabic.

### 3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (6/9)

#### 13. January 21 to 24, 2019, Participation in Regional Workshop on Conducting a Transport Security Inspection for English-Speaking African Countries, Arusha, United Republic of Tanzania

This course provides participants with an understanding about the need for transport security inspections and processes and procedures for conducting effective inspections. It also gives participants the opportunity to engage in scenario-based discussions and exercises.

#### 14. February 12 to 13, 2019, Algiers : FNRBA CHAIR participated to the Special Session between the African Commission on Nuclear Energy (AFCONE) and the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) for enhancing interaction between CTBT and the Pelindaba Treaty.

Hosted by the Algerian Atomic Energy Commission (COMENA), the session aimed, among other objectives, to discuss **partnership building between the Commission and partners such as the CTBTO**. Once the Treaty on Nuclear Weapon Free Zones enters into force, it can **rely on the CTBT verification technologies to enhance their respective verification regimes**.

### 3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (7/9)

15. March 12-14 : Participation in International Symposium on Insider Threat Mitigation in Brussels, Belgium
16. March 25-29 : Participation in Multilateral Conduct of Inspections training Course, Yaounde, Cameroun sponsored by Office of Radiological Security and International Nuclear Safeguards Engagement Partnership of USDOE
17. April , 25, 2019 : Coordination meeting : Office of Safety and Security Coordination (NSOC) and the Division of Radiation, Transport & Waste Safety (NSRW) on transport activities for FNRBA

**During this meeting the following points were discussed :**

- ✓ the **scope of the transport safety** unit and their priorities
- ✓ the upcoming events and the objectives of **TC supported activities** as well as **extrabudgetary activities**.
- ✓ the **role of the IAEA in supporting the FNRBA** and other regional networks ( Nuclear Security Department extrabudgetary programme).



### **3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (8/9)**

**18. May 5-17 : IAEA Workshop on the Fundamentals of Regulatory Inspections of Nuclear Power Plants, Vienna/Zwentendorf, Austria**

**19. FNRBA Members have participated to the following IAEA-KINS Workshops organized for ANSN, ANNuR and FNRBA:**

- ✓ 13-17 May 2019 : IAEA-KINS Workshop on Safety Review and Inspection Methodologies for Quality Assurance;
- ✓ 27-31 May 2019 : IAEA-KINS Workshop on safety review and assessment for licensing Nuclear Power Plants;
- ✓ 10-14 June 2019 : IAEA-KINS Workshop on Radiation Safety and Emergency Response in the Medical or Industrial use of Radiation.

**20. June 17-25 : International Training Course Practical Operation of Physical Protection Systems at Nuclear Facilities, Obninsk, Russian Federation**

**21. June 18-21 : IAEA Technical Meeting on Case Studies: Experiences of MSs in Building a Regulatory Framework for the Oversight of New NPP**

### **3. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2019 (9/9)**

**22. June 23-27 : Regional Training Course on Regulatory Authorisation for Nuclear Security during the Lifetime Stages of Nuclear Facilities, Morocco**

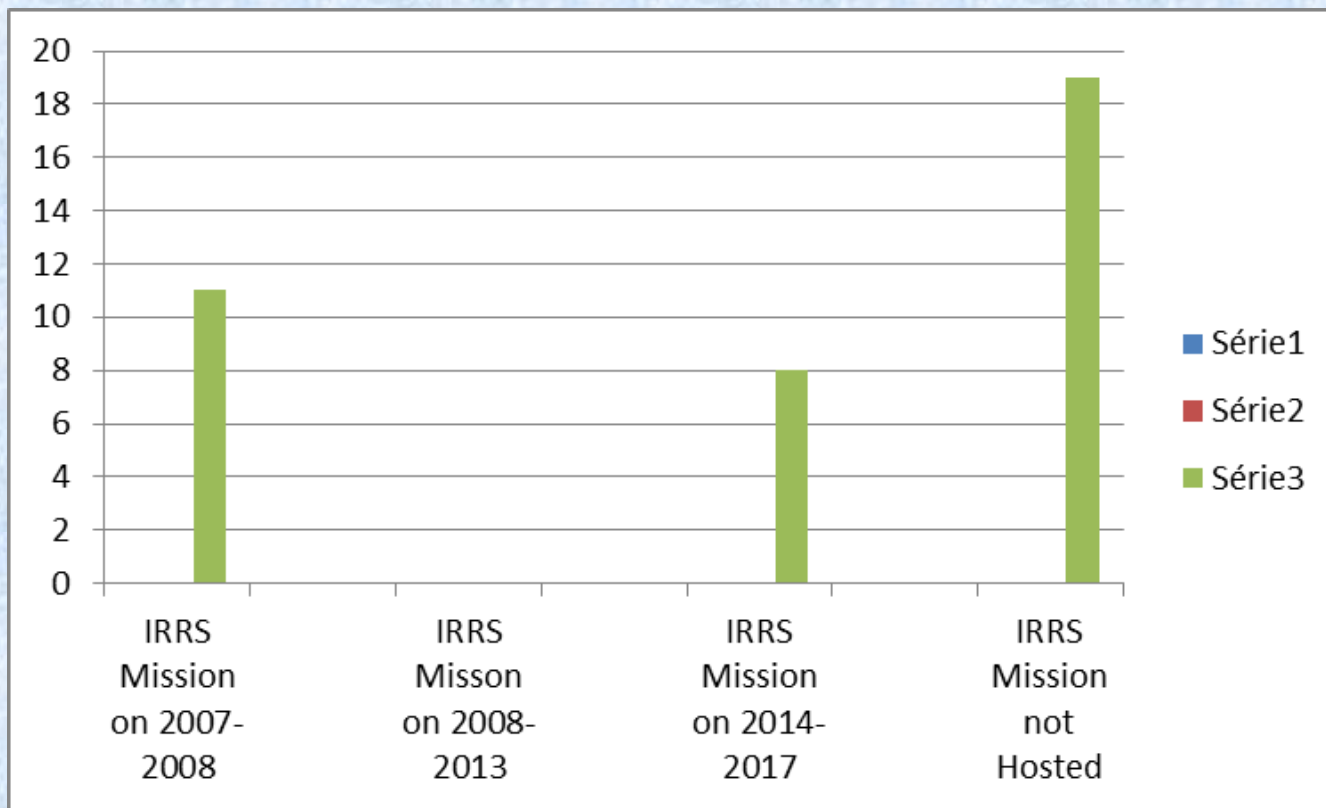
**23. June 24-28 : Strengthening and Establishing the State System of Accounting for and Control of Nuclear Material (SSAC) in African States Parties to the Pelindaba Treaty, Pretoria, South Africa**

**24. June 24-28 : Workshop on Managing Safeguards Training Programmes for State Authorities, ANL, USA**

## 4. ACHIEVEMENTS

### 4.1 Nuclear Safety

#### IRRS Missions in FNRBA Member States

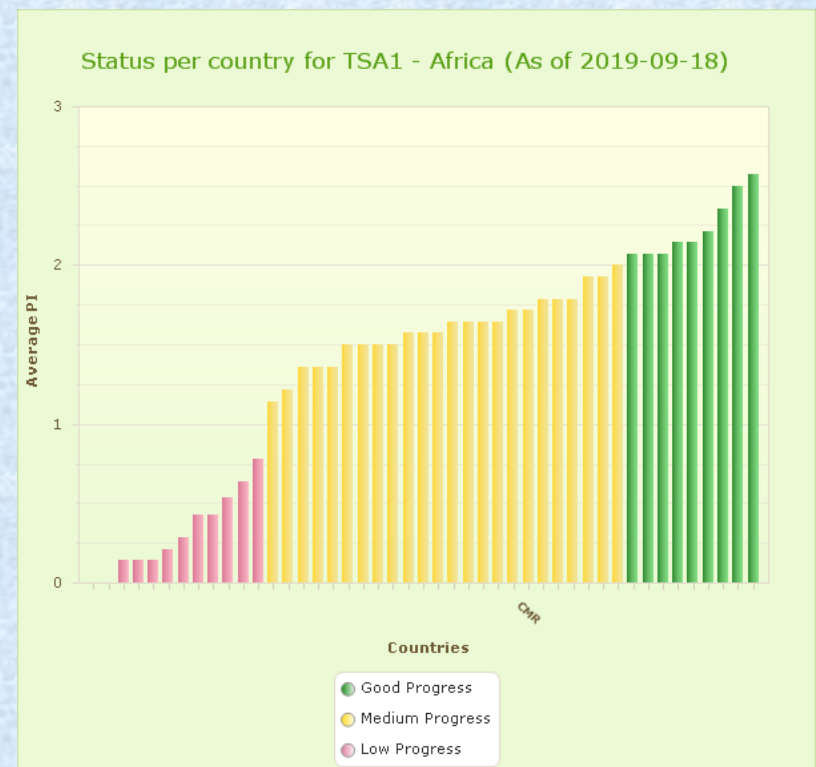


# 4. ACHIEVEMENTS

## 4.1 Nuclear Safety:

### RASIMS Profile

# Progress Made in Regulatory Infrastructure Milestone 1 or TSA1





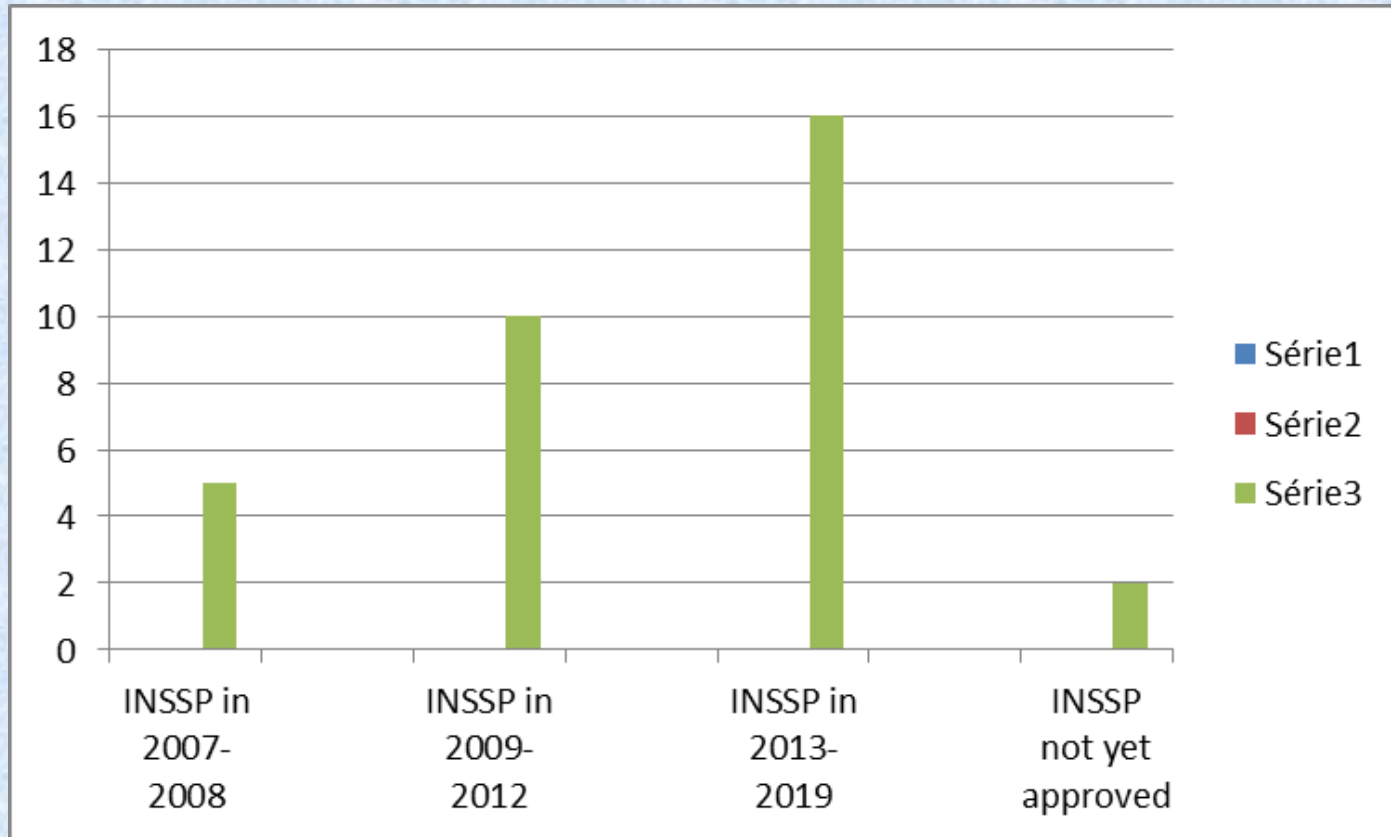
## 4. ACHIEVEMENTS

### 4.2 Nuclear Security

**INSSP Approved: 31**

**developed but not yet approved : 2**

**No FNRBA MS is out of these 2 categories**



## **5. 14<sup>TH</sup> STEERING COMMITTEE MEETING**

**The 14<sup>TH</sup> Steering Committee Meeting was held from 28-30 August 2019 in Vienna, Austria. The meeting recommended that:**

1. A taskforce be constituted to evaluate the effectiveness of the TWGs. (Mr. Akisophel Kisolo works with Secretariat to provide a proposal to incoming SC)
2. FNRBA develops a platform where its members can share information about their regulatory infrastructure (law, regulations, regulatory guides, human resource capabilities and assistance or services to be made available to others)
3. AFRA, AFCONE and FNRBA as inter-governmental organizations, should meet and agree on way forward for cooperating in implementing their respective mandates.
4. Morocco, Ghana and South Africa become pilots for implementation of the Master Degree in Nuclear Safety and Security Programme.
5. Based on the outcomes of the pilot phase, all FNRBA MSs are to develop Consolidated Plan for Safety with assistance from the Agency.

## **5. 14<sup>TH</sup> STEERING COMMITTEE MEETING**

6. Each Member State be requested to assign Technical Officers for the TWGs to reconstitute the TWGs
7. Heads of RBs be copied of correspondence with members of the TWGs by the TWG Coordinators.
8. Member States use FNRBA Collaborative Platform to support the development of regulatory infrastructure in Africa.
9. Country of the Chairman elected during next Plenary hosts next Steering Committee Meeting.
10. A dedicated Working Group on Corporation within and outside the Forum be considered.
11. Secretariat submits Draft Action Plan to various Sections of the Agency for review for completeness.
12. Copies of the Revised Charter be shared with AU, AFCONE, TC and AFRA.

## **6. Celebration of FNRBA 10<sup>th</sup> Anniversary and Charter in force**

**The event organized by the IAEA NS Department took place on 18 September 2019 from 18:30 to 20:00. It was heightened by the presence the DDG NS and DDG TC accompanied by their staff.**

**The Head of the Permanent Missions to the IAEA were invited and many of them attended the celebration.**

**It was a great event attended by around 100 people.**



## **7. Challenges and conclusion**

Forum has been receiving support in implementation of the following activities:

Development of Guidance and Capacity Building in authorization and inspection of radiotherapy facilities, new technologies and Awareness creation - USNRC

Emergency Preparedness and Response for Research Reactors - USNRC

Oversight of Security of Radioactive Sources – USNRC

Safety Evaluation Review for Nuclear Installations – IAEA, KINS

International School of Nuclear and Radiological Leadership for Safety - IAEA

Review of Moroccan Inspection Programme for Research Reactor (Follow-Up to RTR Inspection Training) - IAEA

Workshop on Implementing Model Regulations on Emergency Preparedness and Response – IAEA, IEC

## **7. Challenges and conclusion**

List of open issues to be addressed raised by the SC M on 28-30 August 2019:

Open issues to be addressed were

1. Rules and Procedures to be finalized at this meeting
2. Nomination request for TWG1 on Regulatory infrastructure
3. Nomination of deputies for TWG leaders to test Collaborative Assistance Platform for demonstration at Plenary
4. Joint activities between ANNuR, FNRBA and RCF discussed
5. Invitation of WENRA to the Plenary;
6. Mutual exchange annual reports FNRBA-WENRA
7. Update the FNRBA members' details on website
8. Development of Model Regulations for Siting
9. Development of Transport Safety and Security Model Regulations
10. Development of Qualification and Certification System for Radiation Protection Officers and Formation of RPO Expert Group for Africa – proposal received from Nigeria at this Meeting

## **7. Challenges and conclusion**

12. Uranium Mining and Milling

13. Radioactive Waste Management

14. Ageing Management of Nuclear Reactors

15 . Development of E-Learning Tools

16. Establishment of Regional Expert Group on Transport of Nuclear and Radioactive Materials

**Thank you for your kind  
attention**

**African Renaissance Monument**