



14th Plenary Meeting of the Forum of Nuclear Regulatory Bodies in Africa (FNRBA)

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Annual Report 2021-2022

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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 2021: 21 (Endorsed Revised Charter)

Number of countries in Africa having a law establishing a nuclear Regulatory Body : 34

Number of RB established and operational: 34

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)

Introduction

2. IMPLEMENTATION OF FNRBA's ACTION PLAN FOR 2021-2022 (1/6)

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. 13TH PLENARY MEETING (HYBRID) – 23RD SEPTEMBER 2021

- Under the theme: “Regulatory Oversight of nuclear and radiation safety and security in Africa in COVID-19 Era”
- AFCONE looked forward to holding of joint actions with Thematic Working Groups of the Forum. Practical modalities to organize joint activities with the TWGs called for.
- TWGs provided updates on efforts underway to implement their mandates.
- Management Systems are to be reviewed.
- RASIMS Coordinators to be appointed and profiles to be updated by Member States.
- Interfaces between TWGs and AFCONE structures could be addressed.
- Partners confirmed their continued support to the Forum activities.

4. QUADRILATERAL MEETING – FNRBA, AFRA, AFCONE AND IAEA

- Forum represented by Deputy Chairman and Deputy Secretary
- The Meeting acknowledged the following challenges in Africa:
 - ✓ Integrated Management Systems
 - ✓ Nuclear Law and setting up regulatory framework
 - ✓ Regulations and Guidelines
 - ✓ Cancer Care
 - ✓ Nuclear and radiation safety
- It is recommended that the Forum engage AFRA and AFCONE to agree on a common practical arrangement which can address:
 - ✓ Joint planning and prioritizing
 - ✓ Joint Action Plan
 - ✓ Sharing of resources

5. RENEWAL OF PRACTICAL ARRANGEMENT WITH IAEA

- IAEA Deputy Director General and Head of the Department of Nuclear Safety and Security Ms. Lydie Evrard and FNRBA Chairman Mr. Khammar Mrabit signed the IAEA-FNRBA Practical Arrangements covering a period of three years from 2021 to 2024
- The Practical Arrangements between FNRBA and IAEA is focused on result-oriented cooperation between the Parties in nuclear and radiation safety, and emergency preparedness and response to enhance and improve the status of the national regulatory infrastructure in FNRBA Member States



6. STEERING COMMITTEE MEETINGS

- 17th Steering Committee Meeting (Virtually on 15 December 2021)
 - ✓ TWGs Action Plans reviewed and updated
- 18th Steering Committee Meeting held virtually on 9 June 2022
 - ✓ Regional Workshop on preparation of National Report on Convention on Nuclear Safety” from 2022 to Q2 2023
 - ✓ Hands-on Regulatory Inspector Training
 - ✓ proposal of a workshop on licensing of SMR
 - ✓ Application of Code of Conduct will be held in Q1 of 2023 with support of the research reactor safety section
 - ✓ Members encouraged to join iNET-EPR network
 - ✓ SC agreed to have the election on the next plenary meeting which will be held as a side event of 66th IAEA General Conference on 28 September
 - ✓ Strategic Plan discussed

7. OUTREACH TO SPONSORS

- Activities planned by TWGs were categorized and shared with Partners (USNRC, USDOE(INS, ORS), and IAEA)
- Follow-up discussions were held with USNRC virtually on 17th February 2022
- Interactions with IAEA has been facilitated by our PMO, Ms. Insuk Jang
- Seeking support from USNRC to conduct Planning Meeting for TWG4 in Vienna early next year

8. OUTPUTS (1/4)

- TW6 FNRBA-USNRC Workshop on the Physical Protection of Radioactive Materials (virtually 20-21 July 2022)
- ✓ 38 Participants drawn from Zimbabwe (4), Mali (2), South Africa (3), Egypt (2), Kenya (2), Ghana (9), Mauritius (2), Cote d'Ivoire (1), Burkina Faso (2), DR Congo (1), Senegal (2), Cameroun (2), Chad (3), Ethiopia (1) and Morocco (2)
- TWG3 FNRBA-IAEA Workshop on Regulatory Supervision of Research Reactors in Africa and Workshop on Development of National Safety Requirements for Research Reactors jointly held in August 2022 in Morocco

TWG 2 Outputs

- Preparatory Meeting for **training course on the development of qualification criteria for Radiation Protection Officers** was held on **4th February 2022** involving the IAEA, IRSN and the TWG2 coordinator to discuss on the way forward on the implementation of the course
- To date, only **Egypt** has requested for assistance to review the draft.
- Two international experts and one IAEA representative are expected to be Egypt from 12 to 16 September 2022 to hold the national workshop on the review of their draft.

“draft document titled " Predisposal Management of Radioactive Waste (PMWR); Safety Requirement". PMRW safety requirement represents ENRRA’s adoption of the principles set forth by the International Atomic Energy Agency (IAEA) in GSR Part 5, “

- Ghana also requested the assistance of the IAEA and other partners in the to review of the following documents and these have been done:
 - draft National Radiation Policy and strategy documents
 - **draft Policy and Strategy for radioactive waste management**
 - **Draft regulations on radioactive waste management**
- It is expected that other members take advantage of many opportunities available to help in the development of their radiation and waste infrastructure.



Forum of Nuclear Regulatory Bodies in Africa

**Thematic Working Group on Emergency Preparedness and Response
(TWG4-EPR)**

MODEL EMERGENCY PLAN

(TWG4-EPR REVIEWED, APPROVED 29 SEPTEMBER 2021)

Output from TWG4 on EPR

OUTPUTS (4/4)

- Questionnaire on the Status of National Regulations Related to the Safe Transport of Radioactive Materials developed with the help of IAEA and sent to Members issued by TWG5 in July 2022
- MOU with KINS was signed on 27th September 2022



Events with Partners

- **IAEA Regional Workshop on the Regulation of the Safe Transport of Naturally Occurring Radioactive Material Associated with Mining and Processing from 4- 15 October 2021**
- **FNRBA Participated in the AFCONE Scientific Seminar on Nuclear Disarmament, Non Proliferation, Nuclear Safety & Security & Peaceful Uses of Nuclear Energy virtually on 22 Oct 2021**
- **FNRBA-IAEA Regional Workshop on Regulatory Review, Assessment and Licensing of Research Reactors (FNRBA) virtually on 1-5 November 2021**
- **Training Course on the Safe Transport of Radioactive Material, 22 November – 2 December 2021**
- **FNRBA Participated in the AFCONE IAEA 2 Days Workshop on Enhancing Leadership and Management Systems in Countries Introducing Nuclear Power Programme virtually on 30 Nov 01 Dec 2021**
- **IAEA-FNRBA Training Course on the Development of Regulatory Requirements for Radioactive Waste virtually on 6-10 December 2021**
- **International Conference on the Safe and Secure Transport of Nuclear and Radioactive Materials, 13 to 17 December 2021**

EVENTS WITH PARTNERS

- Regional Training Course for Regulators on Stakeholder Involvement in Licensing and Regulation virtually on 10-14 January 2022
- Regional Workshop on How to build a Regional Capacity Building Centers on EPR (CBC-EPR) virtually on 16 May 2022
- FNRBA Participated in the AFCONE - IAEA Workshop on “Promoting Effective Interaction Among Nuclear Industry and Regulatory Body in Countries Introducing Nuclear Power Programmes virtually on 30 and 31 May 2022

**Thank you for your kind
attention**