Basic Professional Training Course on Nuclear Safety for Members of the Arab Network of Nuclear Regulatory Bodies in Africa

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(AREA - ANGOLA)
SCOPE

- Regulatory Infrastructure
- Number of Staff and Vehicles
- Cooperation with Other Institutions
- Activities and Radiological Installations in Angola
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- Past Activities Performed by AREA’s Inspections and Licensing Department
- Applications of Ionizing Radiation in Angola
Regulatory Infrastructure

- Laws and Regulations Already Approved (in Place)
  - Law 4/07 “Atomic Energy Law”
  - Decree 79/07 “Status of AREA”
  - Presidential Decree 12/12 “Radioprotection Regulations”
Regulatory Infrastructure (Cont.)

- Regulations waiting Approval;
  - Notification and Authorization Regulations;
  - Regulations on Inspection and Authorizations of Practices;
  - Regulations on Application of Regulations;
  - Regulations on Occupational Radiological Protection.
Regulatory Infrastructure (Cont.)

- Regulations under Drafting Process
  - Regulations on Natural Occurring Radioactive Material (NORM);
  - Regulations on Nuclear Medicine;
  - Regulations on Radiotherapy;
  - Regulations on Diagnostic and Interventional Radiology.
Number of Staff and Vehicles
Number of Staff and Vehicles

- **AREA Has 23 Workers:**
  - 2 – Director and Deputy Director General;
  - 8 – Technicians
  - 11 – Administrative Staff
  - 2 – Support Services
Number of Staff and Vehicles (cont.)

- Academic Qualifications:
  - 1 – PhD
  - 5 – Post-Graduated
  - 6 – Graduated
  - 3 – Bachelors
  - 8 – High School.
Number of Staff and Vehicles (cont.)

- AREA Has 14 Vehicles:
  - 8 – Management and Leaderships;
  - 3 – Inspections;
  - 3 – General Services;
Cooperation with other Institutions
Cooperation with others Institutions

- Ministry of Science and Technology;
- Ministry of Petroleum;
- Ministry of Health;
- Ministry of Agriculture;
- Ministry of Interior;
- Angola Army;
- Customs;
- Agostinho Neto University;
Cooperation with other Institutions

- Angola received a number of IAEA advisory missions as follows:
  - Support for the Development of the Radiation Protection Regulations;
  - Integrated Regulatory Review;
  - Support for the Development of the Atomic Energy Act;
  - *Etc.*
Activities and Radiological Installations in Angola
History

- For over 30 years, Angola has benefited from the peaceful applications of nuclear energy in various sectors such as:
  - Industry;
  - Health
  - Agriculture;
  - Construction;
  - Etc.
Radiological Installations & Radioactive Sources

Currently there are over 115 registered radiological sites in AREA database where we can find:

- 3 Linear Accelerators
- 15 Computed Tomography Equipments;
- 150 X-Ray Machines;
- 950 Radioactive Sources:
  - 90 % - Category 3
  - 5 % - Category 2
  - 5 % - Category 4 e 5
Licensing Process

- In this process are involved 8 Inspectors/analysts;

- AREA has not the RAIS yet;

- An Excel Database sheet is used for the National Inventory of Radioactive Sources.
Past Activities Performed by AREA’s Inspections and Licensing Department in 2014

- Audited process - 189;
- Inspections – 45;
- License Issued - 35;
- Authorizations issued - 113;
- Radioactive Sources Registered - 950;
- Transferred Radioactive Sources - 70;
- Imported radioactive Sources - 139;
- Exported Radioactive Sources - 125;
- Enforcement Actions– 6;
- RPOs e Technicians registered - 617;
Applications of Ionizing Radiation in Angola

- Customs – Control of Goods;
- Oil Sector – Well logging;
- Industry – Non Destructive Testing, Nuclear Control Systems, etc;
- Agriculture;
- Health;
- ETC.
THANKS!