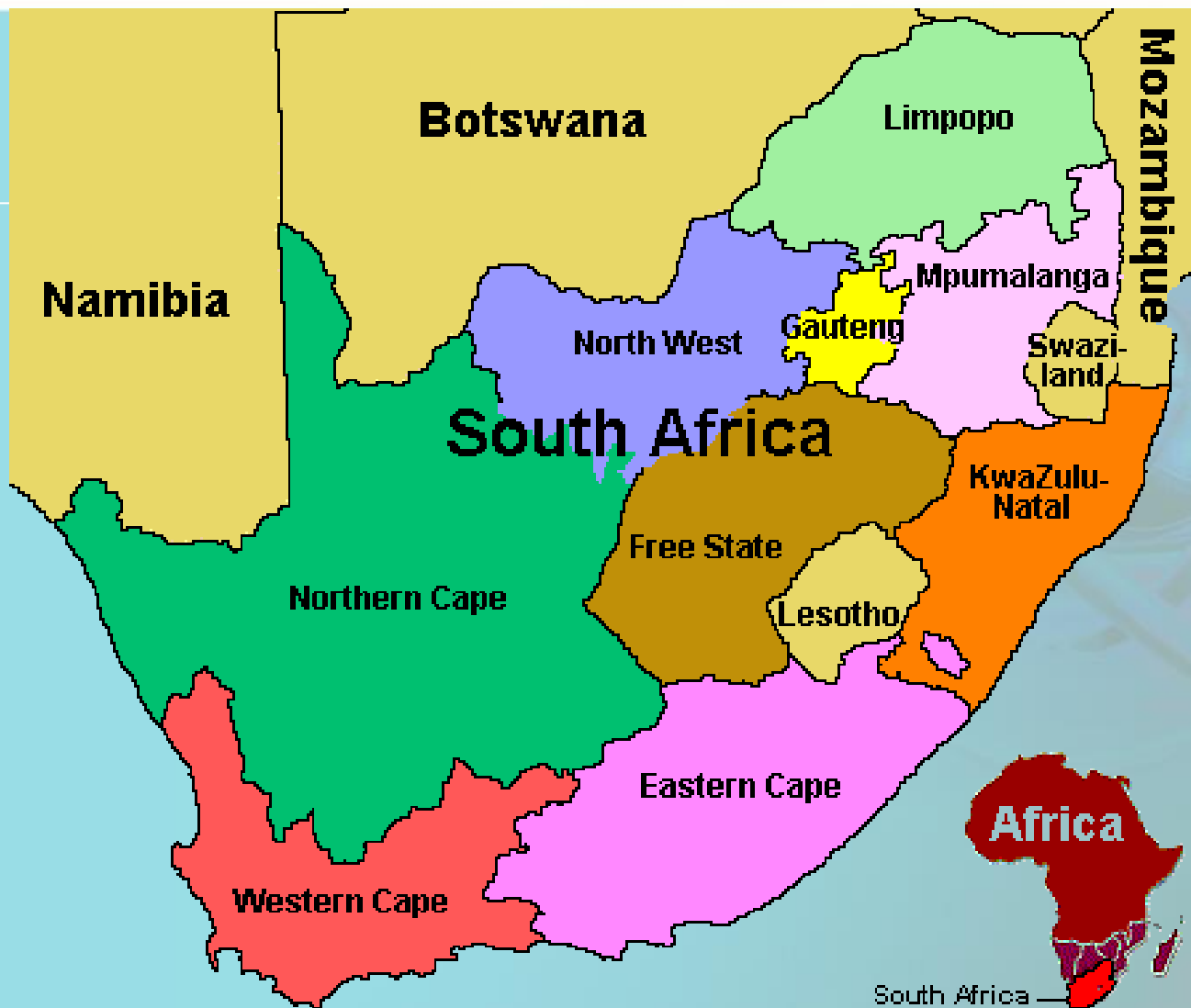


TITLE: RADIATION REGULATION BODIES IN SOUTH AFRICA
PRESENTER: Dr RD MAVUNDA





REGULATION BODIES

1. DEPARTMENT OF HEALTH:
RADIATION CONTROL (DoH)
2. NATIONAL NUCLEAR
REGULATOR (NNR)

FUNCTIONS OF THE TWO BODIES

- DoH

1. Promotion and maintenance of health within the framework of National health plan
2. Protection against injury or disease caused by technological devices
3. Protection against injury or disease caused by radiation
4. Promote safe and legal use of such products

- NNR

1. Nuclear Installation License
2. Nuclear Vessel License
3. Certificate of Registration
4. Certificate of Exemption

DoH IS SUB-DIVIDED INTO FOUR

1. Radio-nuclides
2. Non ionizing Radiation and electro-medical Devices (NIRMED)
3. Ionizing Radiation (electronic products)
4. Inspectorate

FUNCTIONS OF THE DoH: RADIATION CONTROL

1. Promotion and maintenance of health within the framework of National health plan
2. Protection against injury or disease caused by technological devices
3. Protection against injury or disease caused by radiation
4. Promote safe and legal use of such products

ACT

1. Group IV hazardous substance exclusions and exemptions
2. Hazardous substances act
1973 Act 15 of 1973

REGULATIONS

1. Regulations R 690 of 14 April 1989
2. Regulations relating to Group III Hazardous Substances
3. R 1302 of 14 Jun 1991-Schedule of Listed Electronic Products Regulation
4. R247 of 26 Feb 1993- Regulations relating to Group IV Hazardous Substances
5. Group IV hazardous substances- Exclusion and exemptions
6. R1332 of 3 August 1973 - Regulations concerning the control of Electronic Products

ELECTRONIC PRODUCTS

1. Licensing electro-medical products
2. Import or manufactured
3. License conditions
4. Radiation workers
5. Report forms
6. Use
7. Radio-nuclides

CODE OF PRACTICE

1. Electronic products (Ionising and non-ionising)
2. Radio-nuclides

NNR AUTHORIZATION

Nuclear Authorization is the process of granting, by the National Nuclear Regulator, a written approval to applicants or / and operating organizations to perform nuclear related activities as detailed in the scope of the authorization.

NNR STANDARD CONDITIONS IN NUCLEAR AUTHORIZATION

1. Description and configuration of the authorized facility or action;
2. Medical surveillance and Health Register;
3. Safety documentation;
4. Operational requirements in the form of procedures or programmes as appropriate;
5. Maintenance and Inspection requirements;
6. Operational radiation protection programmes;
7. Radioactive waste management programmes;
8. Emergency planning and preparedness requirements as appropriate;
9. Nuclear Security/Physical Security;
10. Transport of radioactive material;
11. Quality assurance; and
12. Reporting.

TYPES OF AUTHORIZATIONS

1. Nuclear Installation License
2. Nuclear Vessel License
3. Certificate of Registration
4. Certificate of Exemption

COMPLIANCE ASSURANCE- OVERVIEW

Compliance assurance is the regulatory process used by the NNR to provide assurance of holders' compliance with the conditions of nuclear authorizations, through the implementation of compliance inspections.

NNR COMPLIANCE INSPECTION

1. Audits
2. Inspections
3. Surveillance
4. investigations

ENFORCEMENT FOR THE FOLLOWING FACILITIES

1. Koeberg Nuclear Power Station
2. NECSA Pelindaba
3. Naturally Occurring Radioactive Material (NORM) Facilities
4. Pebble Bed Modular Reactor (PBMR) - The NNR conducts audits and surveillances on the PBMR design processes as well as on Eskom and the PBMR Company organizational aspects

MONITORING OF RADIATION WORKERS

All radiation workers are
monitored by South African Burro
of Standards

IMPORT AND EXPORT OF ELECTRONIC PRODUCT AND RADIONUCLIDE

International Trade Administration
Commission of South Africa (ITAC) issue
license for import and export of all products
including electronic X-Ray products and
Radio-nuclides

ROLE OF SOUTH AFRICAN RECEIVER OF REVENUE (SARS)

Custom number is obtained from SARS to allow release of imports and exports goods (electronic X-ray product and Radio-nuclides included)

THANK YOU