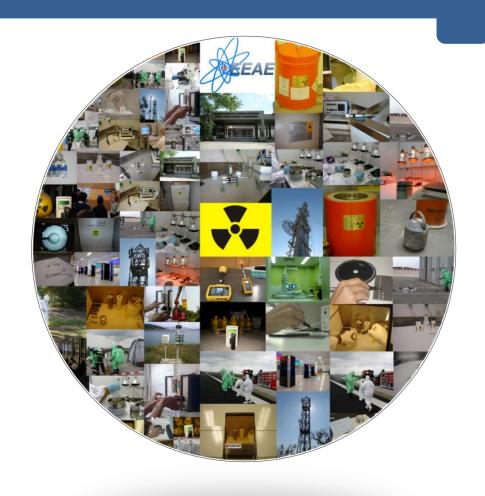


# RPE – RPO: thoughts and initiatives for the transposition of the 2013/598/EURATOM Directive

Konstantinos Karfopoulos, Vasiliki Kamenopoulou Greek Atomic Energy Commission

# **EEAE: Regulatory body**

Competent national regulatory authority in the fields of radiological protection and nuclear safety and security





# Responsibilities

- Regulatory work
- Inspections and licensing of facilities
- Individual monitoring of occupationally exposed workers
- Monitoring of environmental radioactivity levels
- Response to radiation emergencies
- Combating of radioactive materials illicit trafficking
- Calibrations of ionizing radiation instruments

  - Recognition of the competence of occupationally exposed personnel in RP
  - Recognition of syllabi in RP (guidelines)
- Participation in the recognition process of MP
- E&T activities:
  - Regional Training Centre of IAEA (PGEC)
  - Participation in the Post-graduate course in MP
  - Training and continuing training of occupationally exposed workers
  - Training of scientists and experts on RP and nuclear safety







# **Legislation - Current National Framework**

### Regulatory Requirements for E&T in Radiation Protection

#### **The Radiation Protection Regulations:**

- All persons involved in radiological procedures must have knowledge on RP (theoretical and practical training).
- The competence of the personnel working in radiation facilities and activities is verified before issuing (or renewing) the operation license of a facility
- Requirements for RPE, MP recognition and RPO approval
- EEAE issues certificates of competency on RP for occupationally exposed personnel (exams, CVs, personal interviews)
- EEAE recognizes syllabi on RP.



# Basis for the regulatory framework revision

- International Basic Safety Standards (IAEA GSR 1-4, 7)
- New EC Directive
- Recommendations of the IRRS Mission in Greece
- Operational experience from the implementation of the current regulatory framework
- Policy, Strategy, Goals of EEAE (including E&T)
- Common approaches













### Graded approach in the regulatory framework revision

### Issuing of legislative acts (graded approach):

Presidential Decree (main text of the Directive)

Common Ministerial
Decisions
(Regulations)

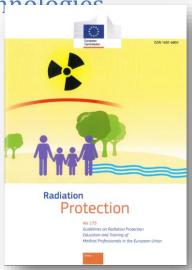
**EEAE Decisions**(Guidelines)

- Update of the Law 181/1974 (mainly on enforcement)
- Transposition of the new EC Directive in the national legislation in the form of Presidential Decree:
  - ✓ Issue of Ministerial Decrees (national policy and strategy, procedures and requirements for licensing, ...)
  - ✓ EEAE decisions describing the technical requirements
  - ✓ EEAE decisions with guidelines and explanatory circulars



### **Special concerns in the General Provisions**

- Take into consideration the new scientific data and new technologies
- Apply the graded approach in the regulatory control
- Prime responsibility
- Safety and security culture
- Establishment of strategies (radon, NORM, ...)
- Dose limit for the lens of the eye
- Medical surveillance of the occupationally exposed workers
- Occupational health services
- Recognition, roles and responsibilities (e.g. RPE and RPO)
- Promote tools for quality (QMS, clinical audits, ...)
- Promote further the coordination and cooperation between involved parties (e.g. transport, buildings codes, local authorities,...)





### Special concerns in "Education and Training"

- Further strengthen education and training
- Ensure that all health professionals with specific duties in relation to radiation protection of patients have adequate education, training and competence in radiation protection
- Further promote safety and security culture





## RPE and RPO general provisions

- For all exposure situations depending on the practice
- Graded approach
- RPE Recognition RPO Approval by EEAE
- MP recognised by the Ministry of Health
- MPE to be recognised by the Ministry of Health (RP 174)



### Non- Medical Applications

#### **Simple facilities**

(industry, research)

- RPE is not required
- RPO is a member of the staff with E&T in RP in the specific activity
- EEAE issues the reference curricula for RPO training
- Approval of RPO during the practice/activity licensing process





### Non - Medical Applications

#### More complex facilities

(industry and research)

- RPE is required
- RPE is required for the Safety Report (construction design and licensing)
- RPE is:
  - A scientist with postgraduate studies in RP (theoretical and practical) and experience in the specific field of RP
  - The syllabi for RPE training is based on the IAEA PGEC
- RPO is a member of the staff with E&T in RP in the specific activity
- RPE could act as RPO but not the opposite





### Medical Applications



#### **Simple Facilities**

(X-rays, in-vitro NM, dental, veterinary)

- MP is required for the Safety Report (construction design and licensing)
- RPE is not required
- RPO can be MP, Med.doctor, Dentist, Vet.
- EEAE issues the reference curricula for RPO training
- Approval of RPO during the practice/activity licensing process

#### Example Dental Radiology:

- Dentist (RPO)
- Safety Report by MP
- an RPE is not required







### **Medical Applications**



#### More complex facilities

(radiotherapy, in-vivo NM, interventional, CT, PET-CT)

- RPE is required
- RPE is required for the Safety Report (construction design and licensing)
- RPE is an MPE (for each specialty?)
- RPO is an MP
- RPE could act as RPO but not the opposite
- EEAE issues the recognition requirements and recognize the RPE



#### Example Interventional Radiology:

- MPE RPE in Radiology
- MP (RPO)
- Radiologist
- Technicians



### **Conclusions – key points**

#### Conclusions for RPE and RPO

- RPE covers all exposure situations depending on the practice
- Graded approach
- RPE Recognition RPO Approval

#### **Issues for Discussion**

- In medical applications the RPE should be an MPE or an MP?
- RPE may be a group of persons or a group of RPEs?
- Could an RPE act as an RPO?



# Thank you very much for your attention!!!



T: + 30 210 650 6700

F: + 30 210 650 6748

E: info@eeae.gr

www.eeae.gr







twitter.com/eeaegr