



# Health Physics: legislative revision

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**FANC**  **AFCN**

federaal agentschap voor nucleaire controle  
agence fédérale de contrôle nucléaire

[www.fanc.fgov.be](http://www.fanc.fgov.be)

# Motivation for revision

## Why?

- Reinforcement of the legal basis of the Recognised Inspection Organisations
  - Holding on to the principle of continuity: difficult to maintain any longer
- GRPIR (ARBIS/RGPRI) of 2001 **needs to be altered**
  - Clarification of the role and responsibilities of the Recognised Inspection Organisation

# Motivation for revision (2)

## Why?

- REX since 2001: taking into account the reality in current practice
- Recommendation of the IRRS audit:
  - Clear distinction between the roles and responsibilities of the licensee/company manager vs those of the safety authority
- Partial transposition of the European Directive
  - Redistribution of the tasks of the qualified health physics expert (RPE) and the radiation protection officer (RPO)

# Basic principles

## What?

1. Reinforcement of radiation protection
2. Augmentation of the responsibilities of the licensee/company manager
3. Clear separation between regulator and licensee/company manager
4. Partial transposition of the 2013/59/Euratom Directive
5. Reinforced graded approach
6. In line with possibilities and reality (current practice)
7. Evolution Recognised Inspection Organisations

- HOW?
  - Legislative revisions (GRPIR 2001) and FANC directives
- NOT:
  - Not a global revision of the GRPIR
  - In scope = the organisation of the Health Physics department and the functioning of the RIO

**RATHER EVOLUTION THAN REVOLUTION**

# Concept: Classification IIA

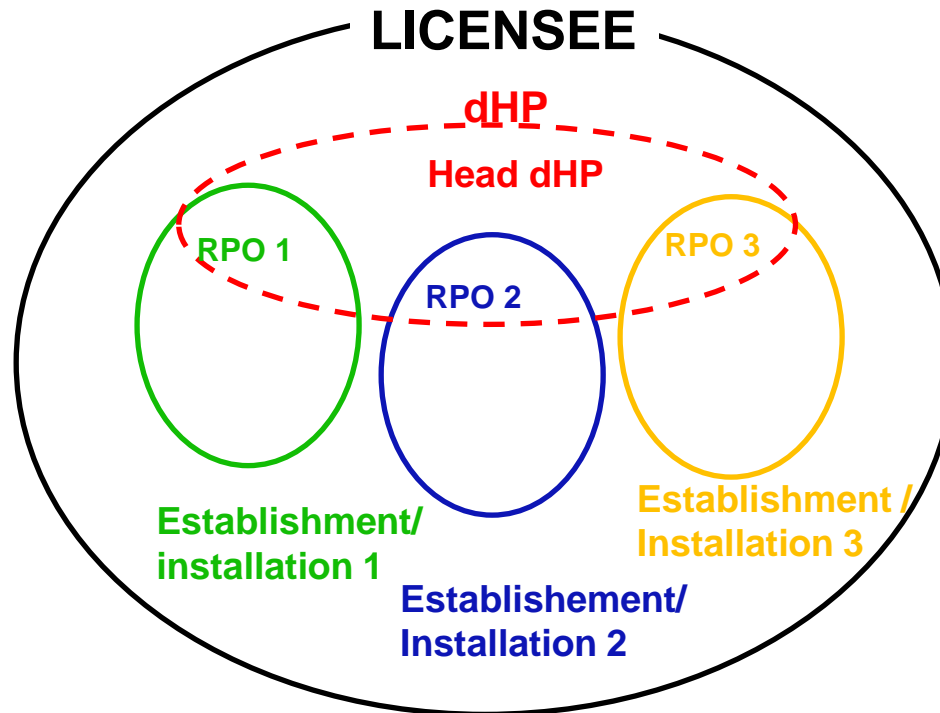
- **Class I:** nuclear reactors, quantities of fissile substances, radioactive waste,...
- **Class II:** production of radioactive substances, particle accelerators, X-ray equipment (> 200 kV), nuclear medicine,...
- **Sub-class IIA: elevated radiological risk**
- **Class III:** radioactive substances ( ↓ activity ), X-ray equipment (<200 kV)
- **[Transport :** all activities linked to transport of dangerous materials classified as Class VII]

# New concept

## UNDERTAKING X



1. Every licensee/carriers needs to found a Health Physics department (dHP)



# New concept (2)

## Head of dHP

- Head of the Health Physics department :
  - Class I : Qualified Health Physics Expert
  - Class II, IIA, III, transport :
    - Qualified Health Physics Expert
    - Head of prevention or collaborator (only when there is no internal Qualified Health Physics Expert)

Protection of the head of dHP (art. 23.5)



# New concept (3)

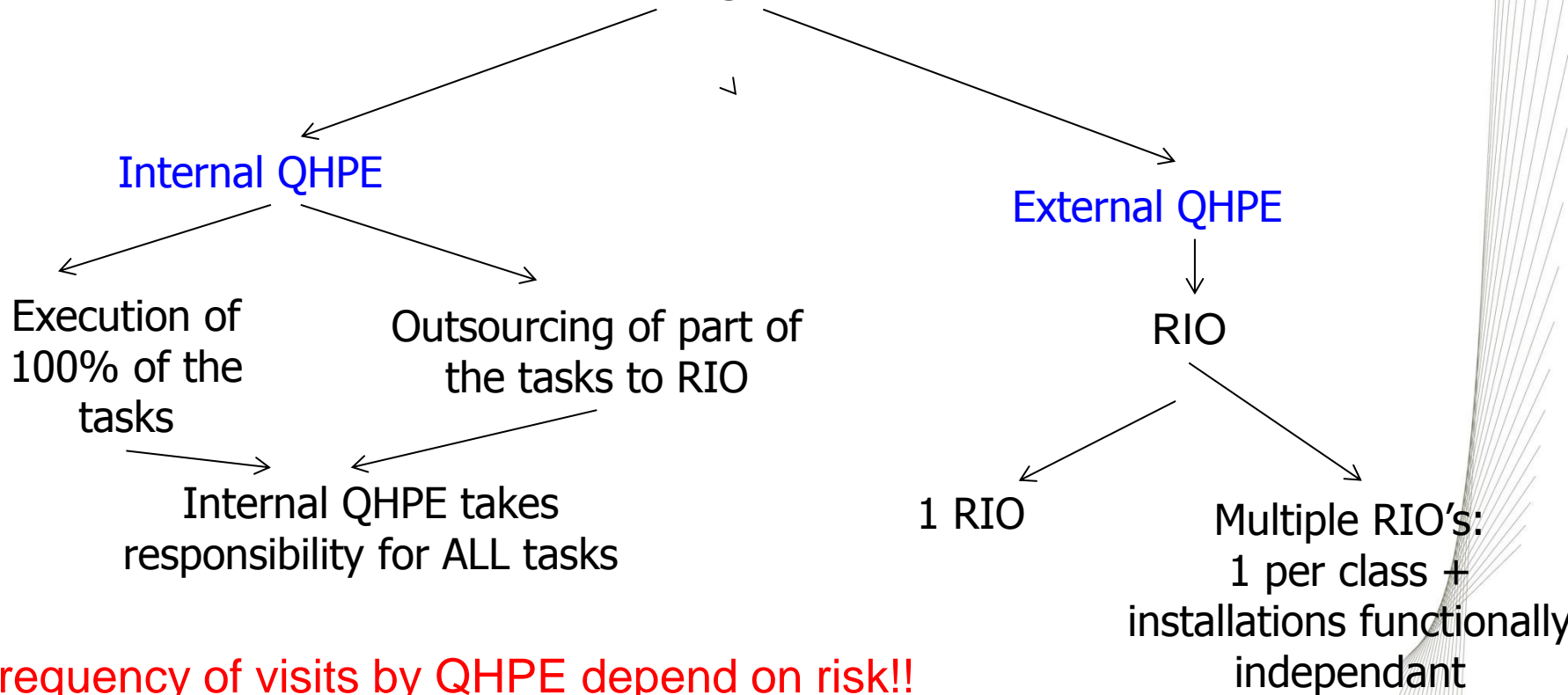
## art. 23

1. Integrated risk analysis (Legislation on Well-being)
2. Internal Health Physics department (dHP)  
Proposal of organisation dHP in demand for authorisation
3. dHP: 3 types of tasks
  1. Generic mission of organisation and supervision integrated risk analysis
  2. Systematic execution of the radiation protection tasks in the workplace:  
**Radiation Protection Officer** (AgSB, AgRP)
  3. Tasks that require the intervention of a **Qualified Health Physics Expert**

# New concept (4)

Class II, III, Transport

4. Tasks of the QHPE consigned to:



Frequency of visits by QHPE depend on risk!!

# New concept (5)

5. Execution of daily tasks within the installation



RPO's

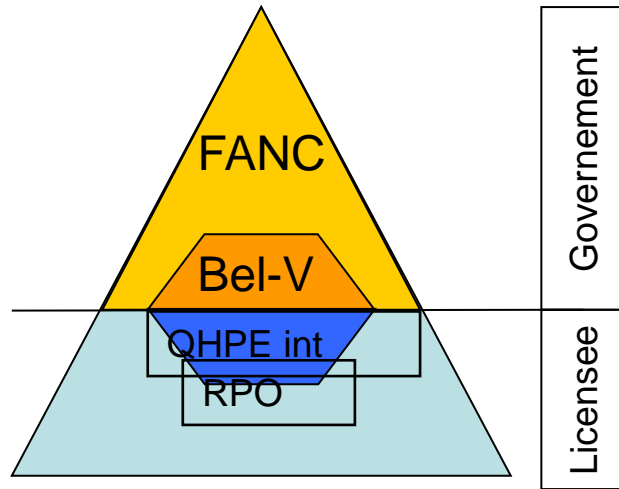


I. Execution of tasks (**procedures** approved by QHPE)

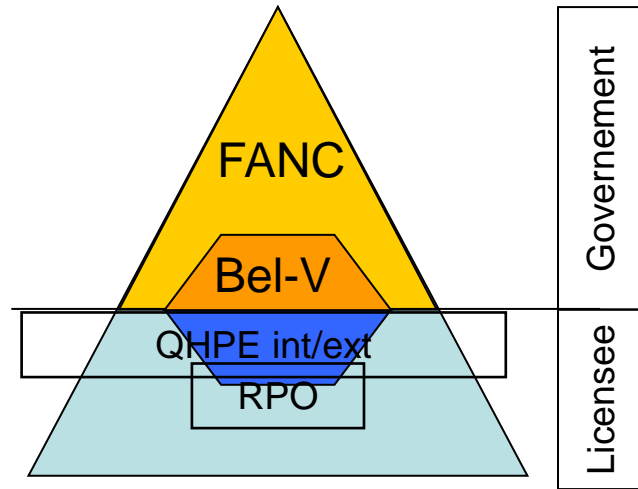
II. **Training**

Adequate theoretical (internal or external) en practical training linked to the kind of practice/installation, approved by QHPE

# Surveillance HP

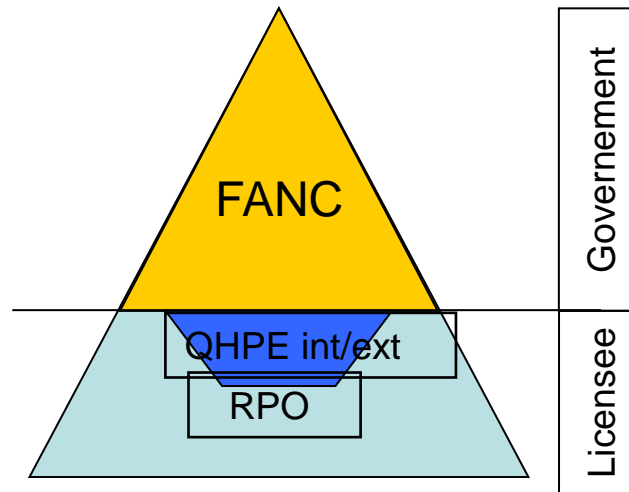


Class I



Class IIA

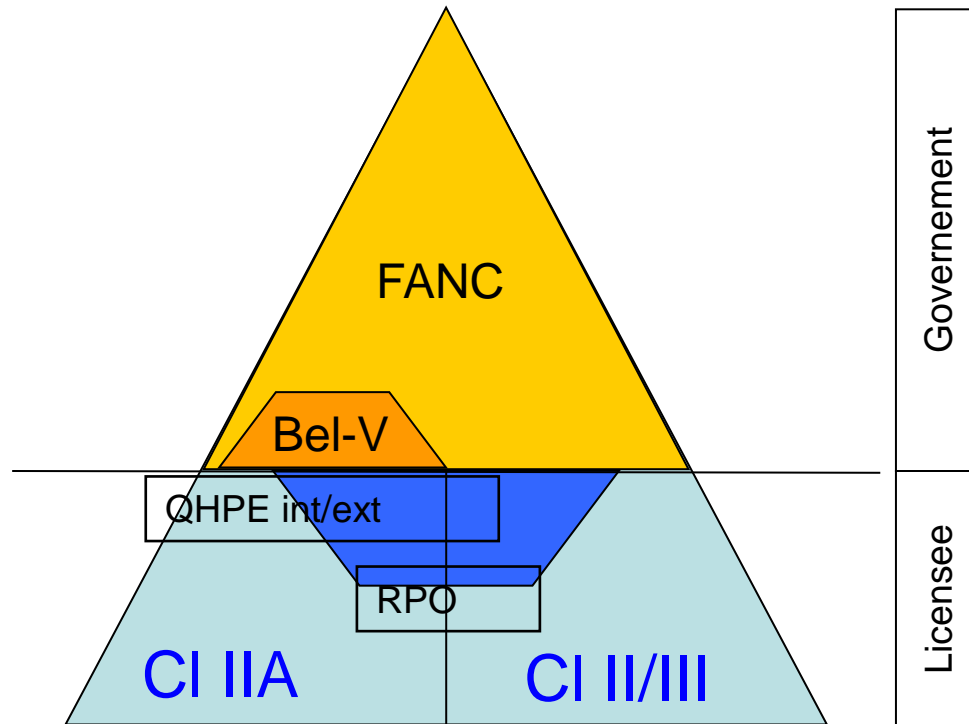
# Surveillance HP (2)



Class II other than IIA / Class III / Transport

# Surveillance HP (3)

- Establishments with installations IIA en II/III



# Development of legislation

July 2016 - Consultation Stakeholders – October 2016 (modification)

(modification) May 2017 – Official advisory organs – Jan 2017  
CSS, PPT, COM

July 2017 – Cabinet + other advise institution - December 2017  
IC, IF, CMR, CE-RVS

**Possible publication Q1 2018** - transitional measures

# Questions?

