



**Herca Workshop Implementation of
RadioProtection Expert &
Radioprotection Officer**

**Qualification in radioprotection in
Belgium in view of the new BSS-
Directive (2013/59/ Euratom)**



Radiation Safety (Health physics in Belgium)

Law of 15th april 1994 (FANC), definitions

- **General Regulation (royal decree)**: laying down the general regulations for the protection of the general public, workers and the environment against the hazards of ionising radiation
- **Recognised inspection organisations** : charged with certain tasks under the General Regulations
- **health physics department (HPD)** : which is responsible for organising and supervising the measures required to ensure that the provisions of the said regulations are observed

Vision for the future control and monitoring system

- **Regulatory body** : need to clarify the status and responsibilities of the "recognised inspection organisations"
 - AFCN; BelV; recognised inspection organisations, HPD; RPE/RPO
- **Be consistent with local needs and resources**
- **Clear separation between the responsibilities** of licensees/transporter and regulatory body
- Giving **more responsibility** to licensees/transporters
- **Every licensee/transport firm** must set up a **health physics department**
- Application of the **graded approach** principle

Schema for high risk facilities

Classe I : NPP, research reactor;

Classe IIA : cyclotron, blood irradiator,...

Class I facilities :

- licensees allocate **internal** resources to manage all **safety and radiation protection functions**
- licensee shall **at all times** have at its disposal a minimum of one qualified Health Physics Expert , head of the health physics department.

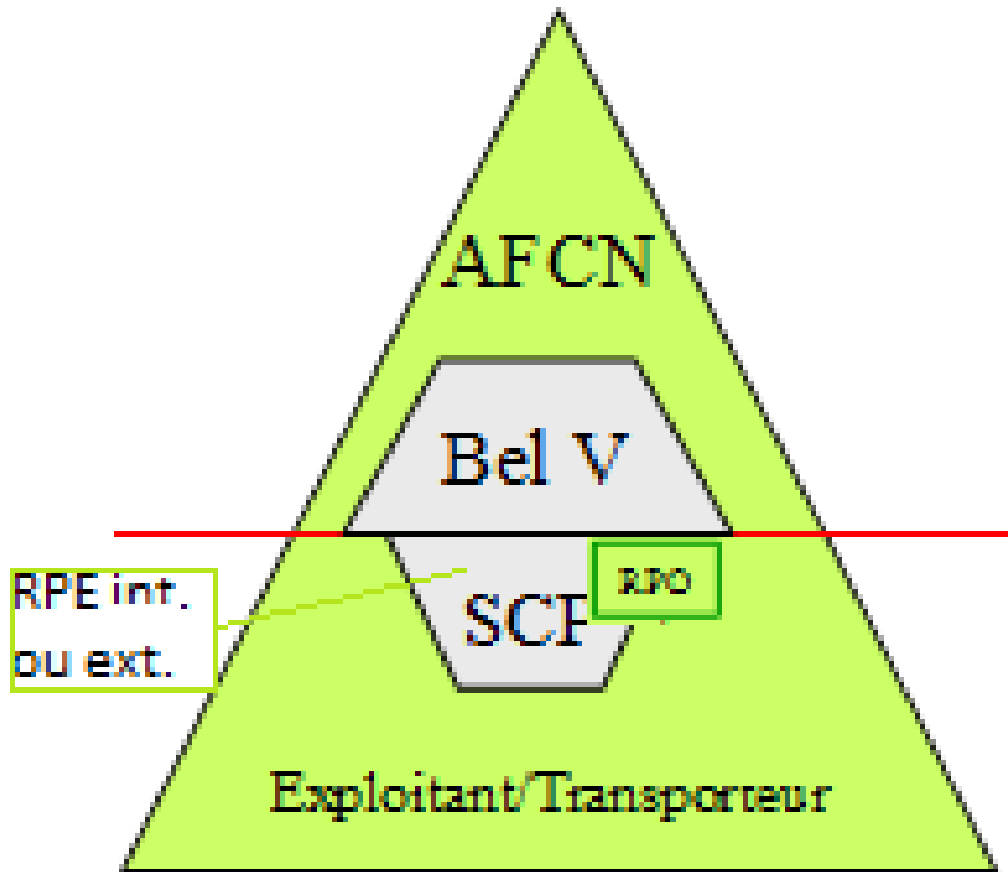
Classe IIA facilities:

- **By delegation of the Agency, Bel V** shall inspect Class IIA facilities, regardless of whether licensees have an internal expert or call in a health physics organisation.

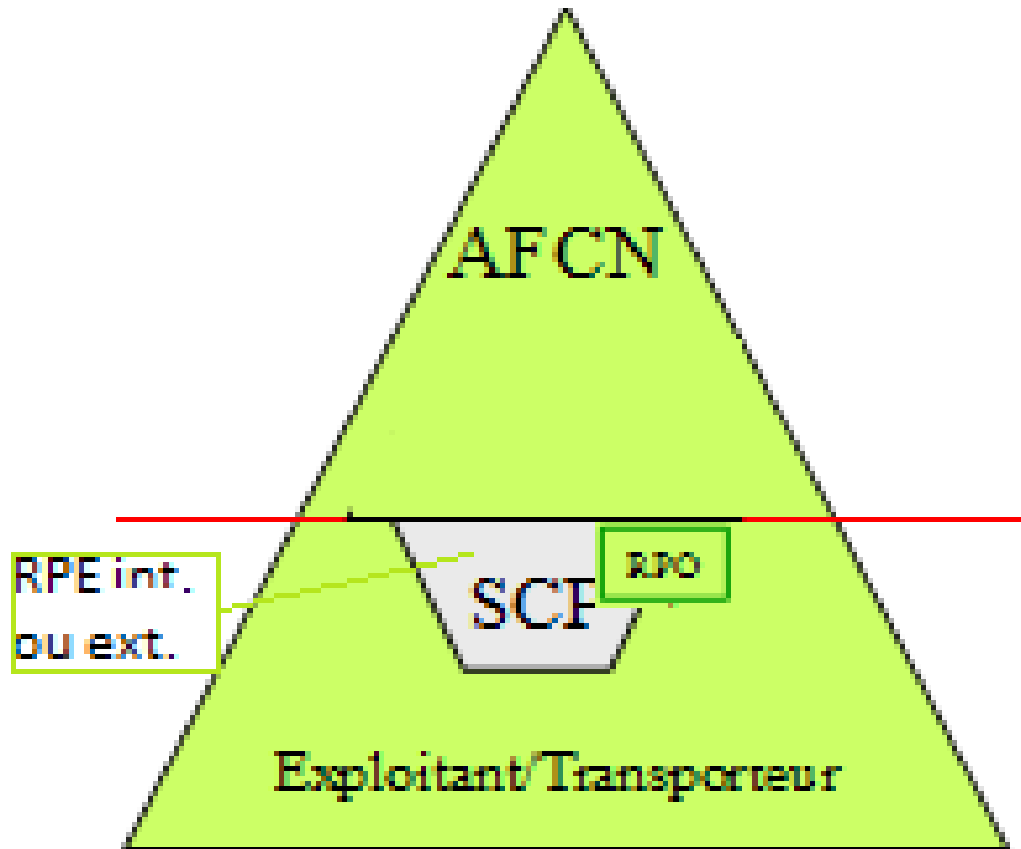
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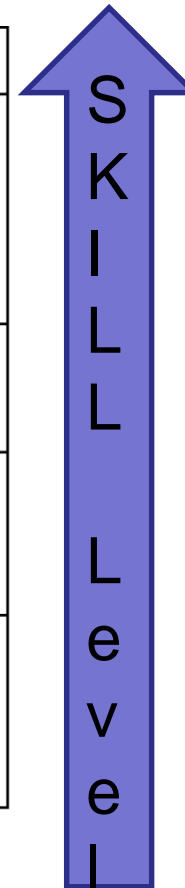


Schema for others facilities Classe II and III/Transport firms



Criteria for minimum training and expertise of Radiation Protection Experts (RPE) and Radiation Protection Officers(RPO)

<i>Parties involved in Belgium</i>	<i>Parties involved - BSS</i>	<i>Functions</i>
Health Physics Expert		<ul style="list-style-type: none"> • Risk and accident prevention • Organisation and supervision of measures necessary for radiation protection (except for medical examination) of workers, the public and the environment
	RPE	<ul style="list-style-type: none"> • To advise on radiation protection in order to guarantee effective protection of people
	RPO	<ul style="list-style-type: none"> • To supervise radiation protection locally on an everyday basis • To report to the licensee • To liaise with the RPE
Surveillance officer per controlled area/transport		<ul style="list-style-type: none"> • To ensure compliance with safety measures and correct operation of protective equipment • To take emergency protective action



Criteria for minimum training and expertise of Radiation Protection Experts (RPE) and Radiation Protection Officers(RPO)

	RPO	Health physics expert
Duties in National legislation	No → Practices/ facilities	yes
Recognised by competent authority	no	yes Validity (3y first time- 6 y)
Basic training	yes	yes
Training & development activities	yes	yes
Operational experience	yes	yes
Mentoring	no	yes