



European ALARA Network & European Radiation Protection Authority Network Survey

APPLICATION OF THE 'GRADED APPROACH' FOR WORKPLACES

WHY A SURVEY?

The Euratom Directive 2013/59 introduced the concept of graded approach for “regulatory control, which should be commensurate with the magnitude and likelihood of exposures resulting from a practice” (art. 24). The exemption, notification and authorisation – which include registration and licensing – are generally (but not systematically) the regulatory options under the graded approach.

The Members of European ALARA Network (EAN) and European Radiation Protection Authority Network (ERPAN) have set up a brainstorming meeting in December 2018 to discuss on their understanding of the concept of graded approach and their practical experience in implementation/application. The topic was limited to *the protection of workers in workplaces*. At the end of the meeting, it was proposed to initiate a survey to collect more examples and enrich the debate, notably by gathering the views of applicant and licencees.

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Name	
Organisation	
Country	

The topics are restricted to the protection of workers in workplaces. The annexe provides examples of graded approaches discussed at the EAN and ERPAN meeting in December 2018.

1. What is the sector/activity you would like to describe? <i>please limit to 1 sector/activity: radiotherapy, transport, NORM, radon at work, etc.</i>
...
2. Is there a very 1st criteria ('baseline criteria' – if any) used to screen the sector/activity? <i>Ex. a risk assessment, expected doses > 1 mSv/y, exemption level, a list of practices found in literature, etc.</i>
...



<p>3. After the baseline criteria (if any), what are the criterion/criteria used for the graduation? Can you provide examples of requirements attached to each level? <i>How many graduations? Are these radiation protection criteria only or are economic and societal aspects also considered? Is it one step process or step-by-step process?</i></p>
...
<p>4. <u>FOR REGULATORS</u>: Did the implementation of the graded approach influenced your method for regulation? Do you have good practice to report?</p>
...
<p>5. <u>For APPLICANT/LICENCE HOLDER</u>: Did the implementation of the graded approach influenced your radiation protection practice and internal policy? Do you have good practice to report?</p>
...
<p>6. Do you see specific issues in a graded approach? <i>Could it be non-applicable in some cases and why? To many steps? Non-understandable in practice? And how to overcome?</i></p>
...
<p>7. Has the graded approach for the sector/activity you report lead to some form of stakeholders involvements and/or communication campaign? <i>Was it sufficient (also for non-radiation specialists/industries)? Do you have good practice to report?</i></p>
...



Annexe. – Sectors and main elements of the graded approaches presented at the EAN and ERPAN meeting in December 2018.

	Sector/activity	Baseline identification (if any)	Criteria used for grading	Examples of requirements
BELGIUM	NORM activities	List of activities (from the EU-BSS list)	1 step process: Dose to the workers (1 value)	<ul style="list-style-type: none"> • Notification • Licensing
	Waste	-	<ul style="list-style-type: none"> • Dose impact (1 value) • <u>then</u> Bq/g (1 value) 	<ul style="list-style-type: none"> • Exemption, notification, licensing • Type of treatment, landfill
	Legacy site	-	1 step process: <ul style="list-style-type: none"> • Dose impact (4 bands) • + Social/ethical consideration 	<ul style="list-style-type: none"> • Intervention (Y/N) • Protective measure
	Transport	-	1 step process: Decision-aiding technique (scoring) using 11 criteria	<ul style="list-style-type: none"> • Number of inspections /years
IRELAND	Medical practices	-	1 step process: Scoring-matrix (peer reviewed-model) using: <ul style="list-style-type: none"> • Documentary analysis (International guidance, etc.) • + Radiation protection criteria; • + Experience, feedback etc. 	<ul style="list-style-type: none"> • Registration • Licensing
	Medical imaging	-	1 step process: Dose to the patient (3 bands)	<ul style="list-style-type: none"> • Level of supervision, • Education, • Dosimetry etc.
FRANCE	Radon at workplace	<ul style="list-style-type: none"> • Radon prone area map • Location of the workplace (basement Y/N) • Documentary analysis 	<ul style="list-style-type: none"> • Radon concentration (Bq/m³) • <u>then</u> radon exposure (mSv/y, calculated) • <u>then</u> radon exposure (mSv/y, measured) 	<ul style="list-style-type: none"> • Notification • Radon zoning • Individual dosimetry etc.