

18th EAN Workshop

Introduction to Working Groups

“ALARA for Decommissioning and Site Remediation”

Institut de Chimie Séparative de Marcoule (ICSM), CEA-Marcoule, France,

11-13 March 2019

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Nuclear Protection Evaluation Centre (C.E.P.N.), France

On behalf of the EAN Bureau

Working Group Topics

ALARA *for Decommissioning and Site Remediation*



Working Group Topics

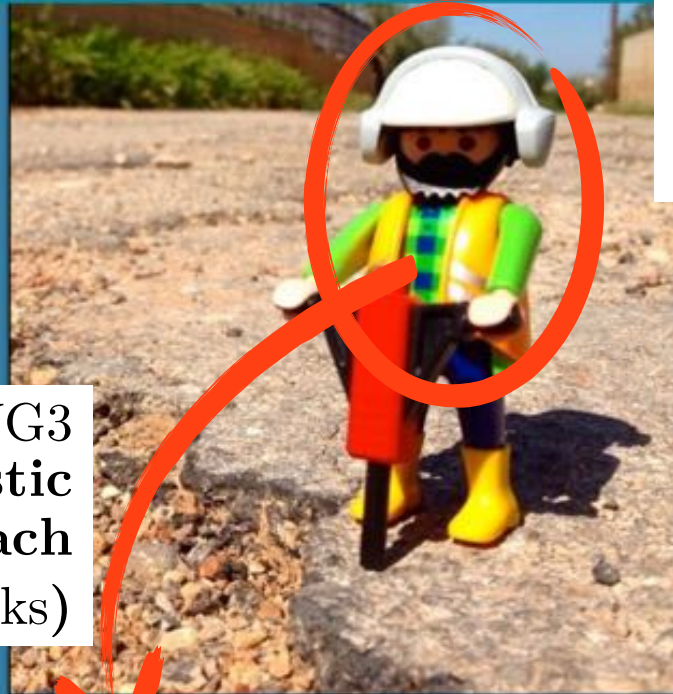
ALARA *for Decommissioning and Site Remediation*



WG1A+B
ALARA for
workers

Working Group Topics

ALARA *for Decommissioning and Site Remediation*



WG1A+B
ALARA for
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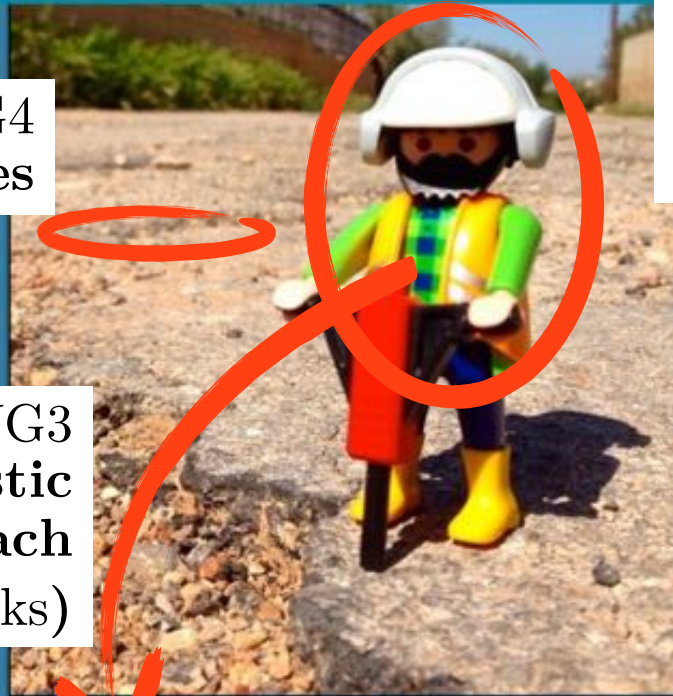
WG3
**Holistic
approach**
(multi-risks)

Working Group Topics

ALARA for Decommissioning and Site Remediation

WG4
Wastes

WG3
Holistic
approach
(multi-risks)



WG1A+B
ALARA for
workers

Working Group: space & time

⇒ **WG1A: auditorium**

 Mr. Antoine


⇒ **WG3: room A1-09**


 Mr. Neukäter





⇒ **WG1B: room A1-8**

 Mr. Ranchoux

⇒ **WG4: room A-11b**

 Mr. Rehs

-  **Monday: 15:00 – 16:45** (after coffee break)
 - (round table), intro, choosing a **Rapporteur**,
 - preliminary discussions

(+ *night thoughts*)
-  **Tuesday: 14:00 – 16:30** (including coffee break)
 - Discussions, preparation of recommendations ( .ppt)
 - Brief meeting with EAN representatives (material shall be provided)
- **Wednesday**
 -  9:00 – 10:20: WG report back (~ 20'/group)
 -  11:00 – 11:45: Workshop conclusions & last discussions

Some thoughts...

Topic 1 – How to apply ALARA for workers in decommissioning and site remediation?

- What are the challenges in applying the steps of ALARA?
 - Access to workplaces not accessed?
 - Characterization?
 - Dose estimation? (time ++ with dose rate --)
 - Selection of the protective actions?
 - ...
- ‘Nuclear sector’ vs. ‘non-nuclear sector’?
- Influence of the strategy (immediate vs. deferred vs. entombment)?
- Recommendations: technical? organisational? training? ... addressed to who?

Topic 3 – How to be ALARA in the context of other risks?

- Work activities with inter-dependencies: need for coordination, but how?
- Mixed risks
 - RP + industrials + civil engineering + contaminants + ...
- How to decide which is predominant ... in a changing context?
- Consequences of a non-holistic approach?
- Recommendations : risk assessments? organisation? ...

Some thoughts...

Topic 4 – The challenges raised by wastes and how to overcome?

- What strategy for what waste?
- Factors to be considered:
 - Type of waste;
 - Properties (hazardous?);
 - Volume;
 - Treatment options;
 - Clearance (if possible);
 - End state;
 - ‘Stakeholders’;
 - Environment;
 - ...
- How to optimise the characterisation?
- How to decide the ”best” solution (ALARA? *de minimis*? benefit > 0?) considering resources, safety, environment and ethical aspects?

Some thoughts...

Questions are provided (to start)
Not new questions ... but still at stake!

You cannot solve the whole topic
⇒ optimise!

Select key themes and investigate
Do not limit yourselves with the recommendations
Discuss & Exchange



Optimisation Procedure – Step by Step

