

16th European ALARA Network Workshop

ALARA in industrial radiography
How can it be improved

Berne, Switzerland, 14 – 16 March 2016

CONCLUSIONS AND RECOMMENDATIONS

P. Shaw (HPA) and P. Crouail (CEPN)



To our hosts and local organisers

Thank you

danke, merci, grazie, grazcha

Request for Feedback will be issued

ALL EAN WORKSHOPS

Objectives

- Exchange feedback
 - Different stakeholders
- Aid the implementation of ALARA in practice
- Identify issues for further research and developments
- Provide conclusions and recommendations

Aims of the 16th Workshop

- To review the conclusions and recommendations of the 5th EAN workshop, and determine whether any real improvements have been made.
- To ask what else might be done to improve radiation safety in industrial radiography and ensure that exposures are ALARA.
- To bring together stakeholders
 - to exchange practical ideas and experience
 - to identify further improvements
 - to produce recommendations



Issues and themes from the Workshop

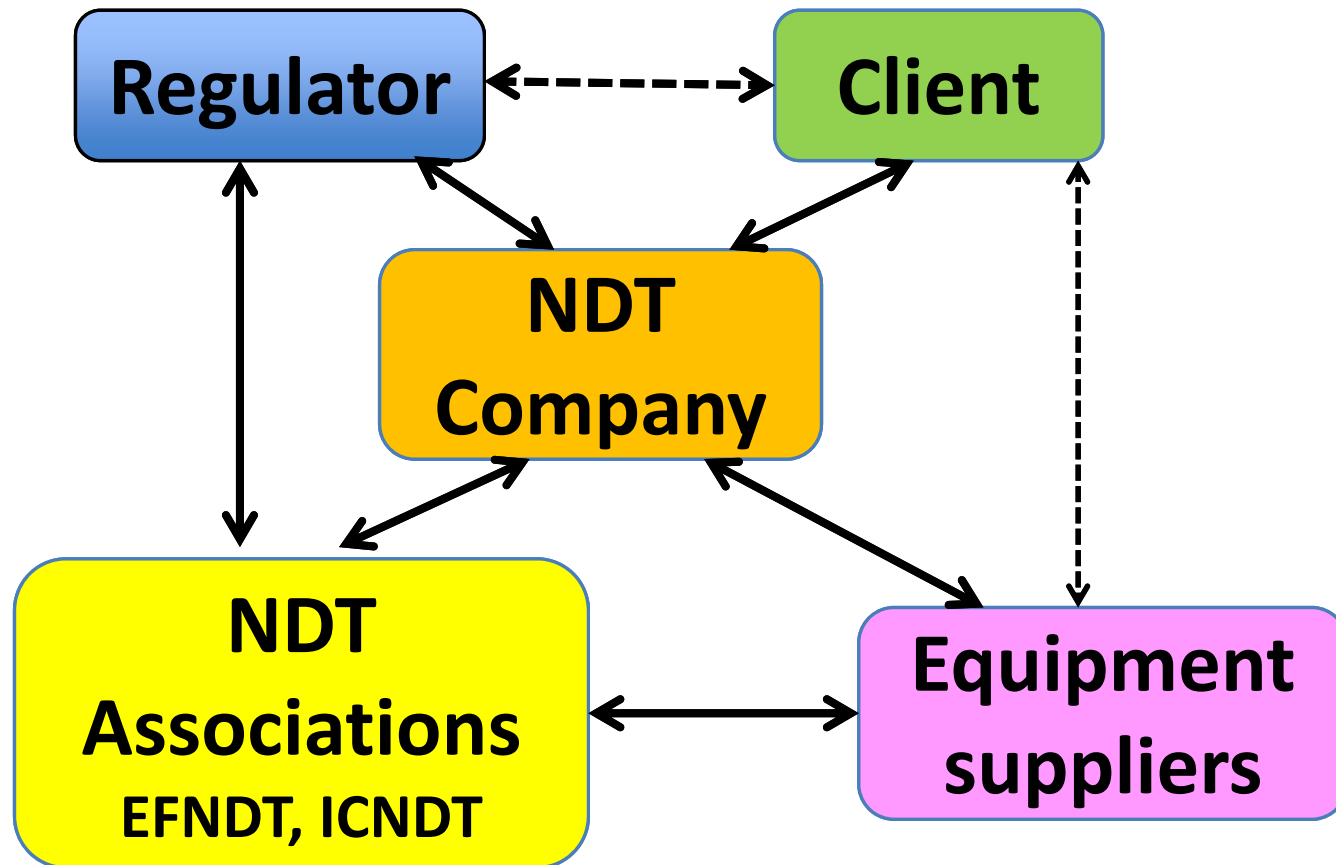
Oral Presentations and
discussions



1. Safety culture

- First problem is the “industry culture”
 - Need to increase the “status” of industrial radiography, ie as an expert profession
 - Start from EN ISO 9712: 2012
 - *Accreditation system for NDT Companies?*
- Need to raise Client awareness
 - Need to pay more for quality and safety
- Need to increase Regulator focus on safety culture

2. Stakeholders



3. Stakeholders working together

- NDT companies
 - More self-assessment, more (no blame) reporting
- Regulators
 - More (and new) inspections and enforcement
 - Working with NDT companies to solve problems
- Client
 - More involved, more RP aware (accident consequences)
- NDT Associations
 - More RP focused, training standards and accreditation
- Equipment suppliers
 - More involved, more dialogue with users, practical training

4. Equipment and suppliers

- Some significant developments
 - Exposure systems and detectors
 - Limited scope for further improvements?
- More scope for better emergency equipment?
- Other technology improvements
 - Apps? Radiation detectors etc.
- Equipment suppliers and maintenance organisations can provide an important **training** function
 - Proper use and maintenance
 - Practical incident response

5. Training and self-assessment

- Training
 - Need to specify training requirements
 - National regulations, international guidance?
 - Need “hands on” training, and refresher training
- Self-assessment (more regulatory pressure needed)
 - Compliance and culture assessment
 - Benchmarking – doses – ALARA?
 - *External dissemination (eg to clients)?*
 - *Recognition/certification system?*

6. Accidents

- Need better prior risk assessment
 - Including site-specific questions
 - co-ordination with other stakeholders
- Focus on human and organisational factors
 - Consider response under pressure
- Simple and practical emergency plans

RECOMMENDATIONS



Dissemination of Workshop conclusions

- Conclusions and recommendations will be prepared by EAN and EFNDT
- Draft to WG Facilitators
- EAN dissemination
 - Website and Newsletter - PAPERS NEEDED!
 - To ICRP, partner organisations and networks
 - National Journals (UK, France, Other?)
- Further actions? (ICRP TG)
- Follow up?

17th EAN Workshop

ALARA in accident and post-accident situations

Lisbon, PORTUGAL, 15-17 May 2017

