Focus on more consistency in responding to nuclear emergencies



"Nuclear Transparency Watch"

Brussels, 7th November 2013

Presentation by Patrick Majerus (LU)

Chairman of the HERCA – WG "Emergencies" (WGE)

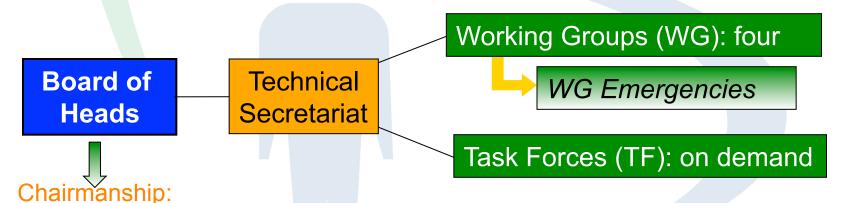
HERCA Overview

Creation & Status: in 2007 on the initiative of ASN. Voluntary association

Objectifs: Build and maintain a European network of chief radiation safety regulators in Europe with the aim to develop, whenever possible; a common approach to radiation protection issues and to have an impact on the practice of RP within the States of HERCA members.

Participation (official): 49 RPA from 31 European countries (including the 27 EU States).

Structure & Working methodology



Mr LACOSTE, ASN, France 2007-2008 Mr HARBITZ, NRPA, Norway 2008 – 2011 Mr MAGNUSSON, IRSA, Island 2012 - 2015

Approved Internal & External Policies (Dec 2010)

HERCA Overview

External relations:

Since its creation HERCA approached by an increasing number of stakeholders + Aiming to collaborate and avoid duplication of work in some areas, HERCA has approached some international fora.



The total number of organisations, associations, platforms, projects etc, with which some kind of relation has been established has been increasing especially over the two last years (they amount > 30)

Special status of the EC: regular observer in Board & WG meetings

Some achievements:

- European radiation passbook & practical guidance for its implementation
- A common European strategy in a nuclear emergency situation is under discussion: "Top-Down approach";
- Several joint statements and common views approved (i.e the justification of full body x-rays scanners in security, in the medical and non medical field)
- A common view on the regulatory aspects of lamps containing small amounts of radioactive materials ...
- Coordination of efforts established with major stakeholders (i.e MOU w/ FDA. IAEA, ...)

HERCA: Focus on emergencies

EP&R major priority for HERCA since its creation.

Chairman's proposals after Fukushima

- <u>Internal communication:</u> Sharing info on countermeasures adopted at national level IACRNE, Compilation by NEA made available (avoid duplication)
- External communication.

 Statement: links from www.herca.org to national radiological environmental surveillance networks, airborne monitoring systems & overview of countermeasures applied
- Mandate of the new WG emergencies Extend the mandate of new WG Emergencies to include accidents occurring far away (little or no direct impact in Europe) + Stress (very) early stages of accident, incl.pre-release

Accepted by Board of Heads on 18 April 2011

Topical session on the role of HERCA on preparation for and management of nuclear emergencies after Fukushima (Jun.2011)

- need to enhance information exchange and communication relevant to national emergency management decisions at international level, in particular within European countries.
- need for harmonization and coordination of protective measures in a situation Fukushima-like in order to ensure a balanced response need for a mechanism to improve the communication exchange and coordination
- at international level and in particular at the European level

WG-Emergencies Introduction

New WG Emergencies (WGE) (set up on the occassion of 7th HERCA meeting on 30/6/2011)

- Main Goal: propose practical, operational solutions for a more harmonized approach.
- <u>Participation</u>: 37 members from 21 countries. It is chaired by Patrick Majerus, DRP, Luxembourg

HERCA published achievements in this area:

- Emergency Preparedness. Practical Guidance Practicability of Early Protective Actions (2011); www.herca.org
- HERCA's views on achieving cross-border consistencies during a nuclear emergency - Volume 1 Number 2 Radiation Regulator - 2013.
- Practical proposals for further harmonisation of the reactions in European countries to any distant nuclear or radiological (2013); www.herca.org



Presentation at various meeting

Promotion of the "HERCA approach"

 WPNEM, Article 31, WENRA, NERIS workshop, ENSREG conference, Nordic country meetings

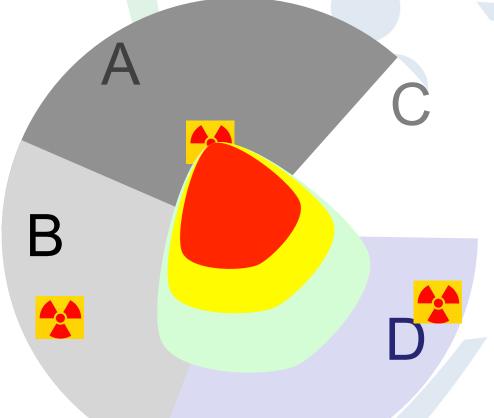
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Consideration of the issue

Nuclear accident in country A



A nuclear accidents occurs in country A that affects the territories of neighboring countries.

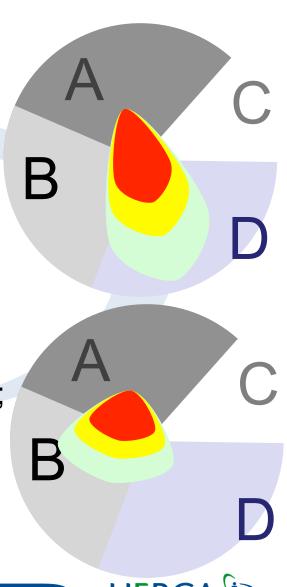
All countries are fully sovereign in organizing the emergency.





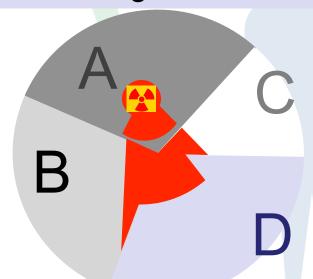
Countries have different provisions - examples

- Methods for assessing the on site situation;
- Models for radiological impact assessment and dispersion projections;
- Appreciation of uncertainties;
- Intervention levels and their definitions;
- Definitions of emergency planning zones;
- Structures, responsibilities and organizations.



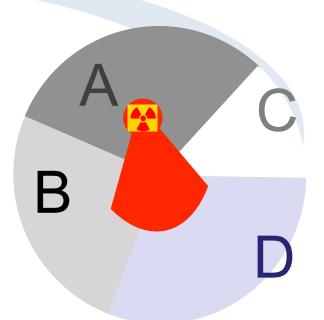
Territories for protective actions

Individual differences risk to lead to inconsistencies along borders



Leads to distrust in the decisions of authorities and amplifies the sereneness of the crisis

Main goal of the HERCA-WGE



= consistent.



Possible Approach

Harmonize identified differences

However:

A complete harmonization of different national provisions is very difficult, since the provisions stand in most countries on very solid grounds. (national provisions ≠ wrong)

Important differences also come form uncertainties → Doing things in the same way does not mean getting the same results!



Proposed HERCA approach

Moment for the anticipation or decision with regard to the main protective actions.

- Sheltering

and setting up of

erting

- Iodine blockage
 - Evacuation

Available information

Uncertainty about further development Availability of information is higher within accident country

Uncertainties inevitably leave room for flexibility in decisions.

Early Phase (0 – 12 hours)

- Enhance the cooperation between the European organizations responsible for emergency radiological assessment.
- Develop a common understanding of a given emergency situation between those bodies as the basis for consistent and appropriate recommendations on protective actions and other response actions.

HERCA approach

Accident country shares early information that is not yet validated at national level

Neighbor country uses the information to anticipate further developments

Neighbor country aims at aligning recommendations for decisions on protective actions with accident country



HERCA approach

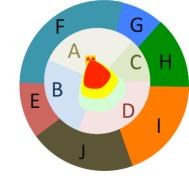
Implementation during an emergency - coordination!

- Intensive local and/or regional coordination/ consultation mechanisms between neighboring countries for deciding protective actions consistently. Following the recommendations of the accident country should be the privileged scenario.
- Ad-hoc coordination/consultations between all European Countries in case of important differences of the assessments (audio-conference).



HERCA approach

Prerequisites



- In depth knowledge of the existing arrangements and capacities in the neighboring countries – to be prepared well in advance for getting the assurance that things are done properly –TRUST!
- Countries need a nuclear emergency framework that allows for some flexibility (ex: intervention levels should not be a strict criterion)



Outlook

The ideas as presented have been translated into a draft road map consisting of 3 phases:

- 1. Preparedness phase Enhance mutual understanding (work has started to assist implementation).
- 2. Early phase of an accident (a workshop for testing the ideas from the road map was held in September 2013 conclusions are presently been drawn).
- 3. Later on (around 12 hours later), development of a common situation report Further discussions on the principles are still needed.

ENSREG action plan 25/7/12:

ENSREG will ask HERCA and WENRA jointly to develop improved guidance on mutual assistance between regulators (WENRA action item I.4)