

WENRA

Current activities of WENRA

5th GNSSN Steering Committee Meeting
Vienna, 1 December – 3 December 2014
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01

WENRA

01 WENRA

Basic facts

- Association of the Heads of nuclear regulatory authorities of the EU countries with NPP and Switzerland
- Original Terms of Reference signed on 4 February 1999 (10 countries)
 - Revised on 14 March 2003 (17 countries)
 - Revised on 26 March 2010
- Independent club of regulators
- European center of competence for Nuclear Safety
- Chairman Hans Wanner / ENSI

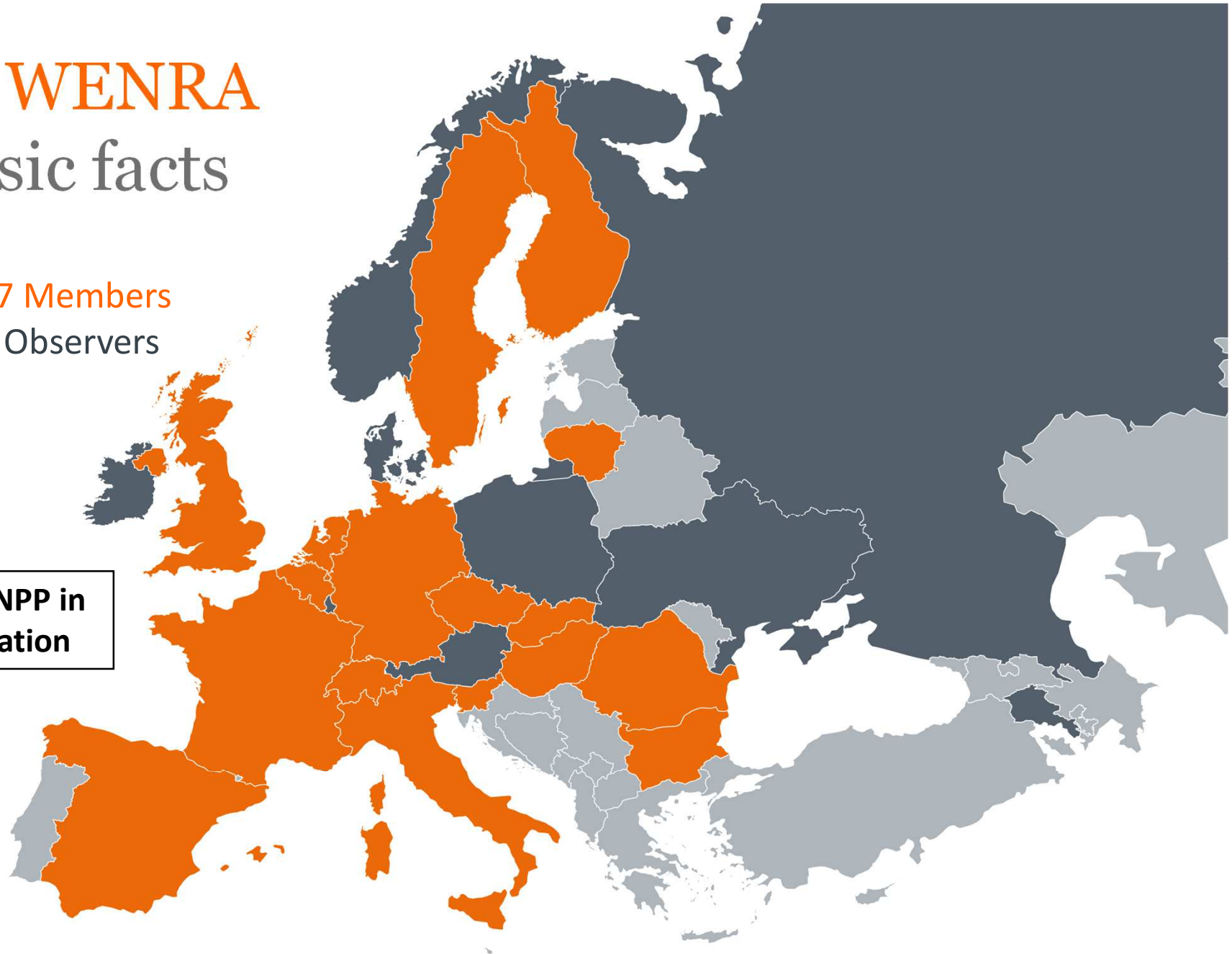
www.wenra.org

01 WENRA

Basic facts

- 17 Members
- 9 Observers

137 NPP in operation



01 WENRA

Technical Working Groups

Technical Working Groups have been established to **harmonize safety approaches** and continuously improve nuclear safety:

RHWG Reactor Harmonization Working Group

WGWD Working Group on Waste and Decommissioning

Ad-hoc working groups

Members

- Senior experts from all WENRA countries
- Meetings 3/yr and subgroups

02

WENRA Working Group on Waste and Decommissioning WGWD

02 WENRA WGWD

WGWD activities

Harmonization of requirements in the field of radioactive waste and spent fuel storage.

Waste and Spent Fuel Storage

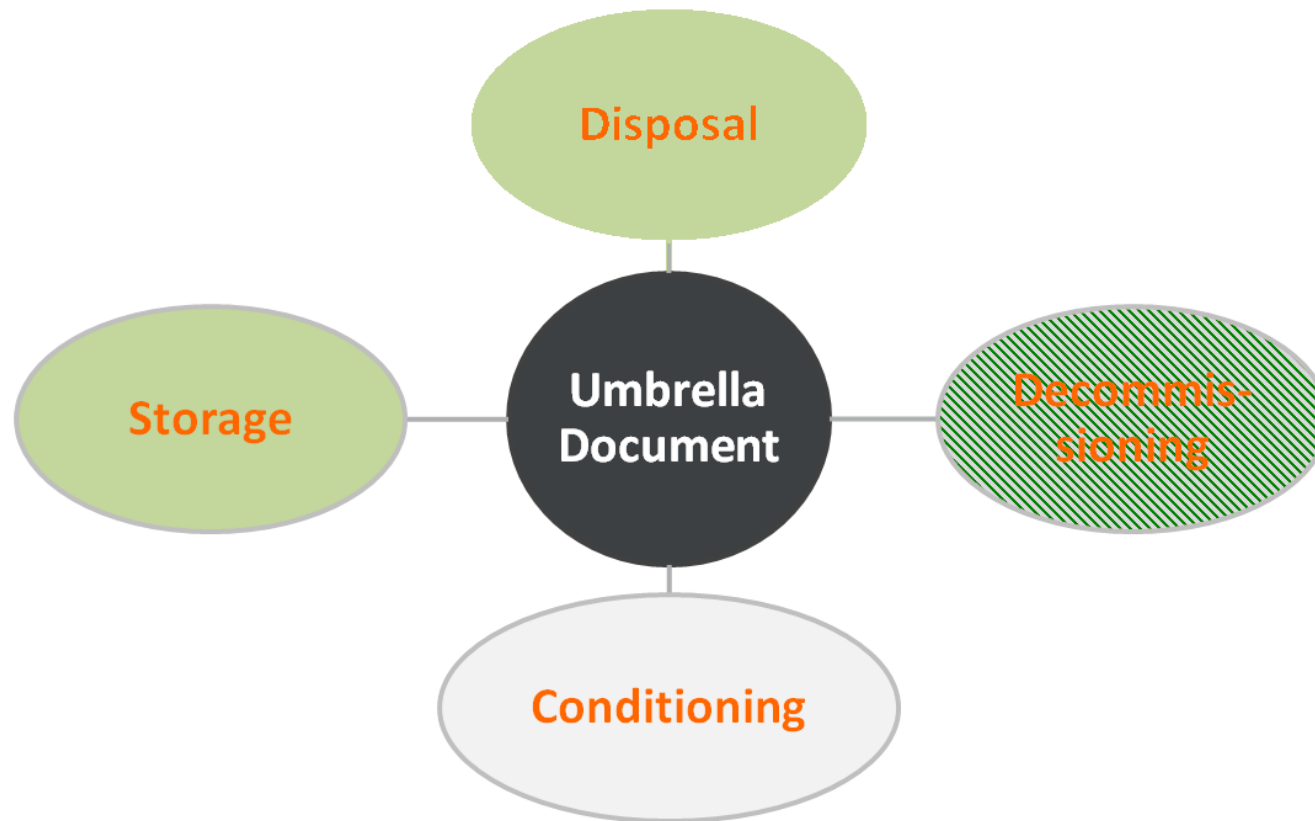
Report on implementation of Safety Reference Levels published in April 2014

(www.wenra.org)



02 WENRA WGWD

WGWD activities



02 WENRA WGWD

WGWD activities

Decommissioning and Disposal Reports

Reports on implementation of Safety Reference Level were finalized and approved in 2014 (Reports will be published soon on website).

Report on Conditioning

Future work

03

WENRA Reactor Harmonization Working Group RHWG

03 WENRA RHWG

RHWG activities

Complete set of 284 Reactor Safety Reference Levels (SRL)
published in 2006

Revised set of 295 SRL based on stakeholder comments
published in 2008

Implementation >80% in 14 countries, 100% in 8 countries

Revision of SRL based on lessons from Fukushima started in
2012 and finalised in 2014 (endorsed by WENRA plenary
session in October 2014).

2017 has been identified as the date for implementation of
the SRL.

03 WENRA RHWG

Review and Revision of SRL

Guidance Documents (in preparation):

- Guidance document on natural hazards (Issue T)
 - Head document; explaining the understanding of the SRLs
 - Particular appendices for:
 - ❖ Earthquake
 - ❖ Flooding
 - ❖ Extreme weather conditions
- Guidance document on design extension (Issue F)
 - Purpose is to provide improved understanding of the intent of the Safety Reference Levels of Issue F for consistent interpretation
 - Concept of “Design Extension Conditions” (DEC) is used
 - DEC-B involving a severe accident or DEC-A not involving a severe accident

03 WENRA RHWG

Safety Management	A	Safety Policy
	B	Operating Organization
	C	Management System
	D	Training and Authorization of NPP staff
Design	E	Design Basis Envelope for Existing Reactors
	F	Design Extension of Existing Reactors
	G	Safety Classification of Structures, Systems and Components
Operation	H	Operational Limits and Conditions
	I	Ageing Management
	J	System for Investigation of Events and Operational Experience Feedback
	K	Maintenance, In-service inspection and Functional Testing
	LM	Emergency Operating Procedures and Severe Accident Management Guidelines
Safety verification	N	Contents and updating of Safety Analysis Report
	O	Probabilistic Safety Analysis
	P	Periodic Safety Reviews
	Q	Plant Modifications
Emergency preparedness	R	On-site Emergency Preparedness
	S	Protection against Internal Fires
Design	T	Natural hazards (new issue after Fukushima)

342 Safety Reference Levels

04

WENRA Recommendation on flaw indications

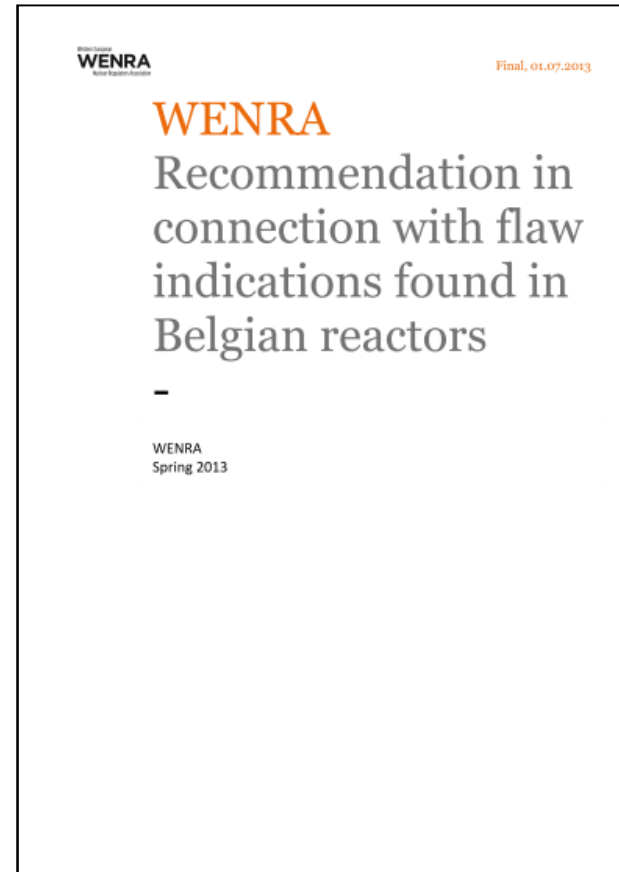
04 WENRA Recommendation

2-step verification of materials quality and structural integrity of reactor pressure vessels :

1. Comprehensive review of RPV manufacturing and inspection records
2. Examination of the base material of the vessels

- In preparation a document on activities in countries following WENRA recommendation.
- Until now no further indications

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05

Revised Safety directive

05 Revised Safety directive

- Implementation of EU Nuclear Safety Directive-
 - Revised EU directive approved on 8 July 2014.
 - Specific article dedicated to a thematic peer-reviews mechanism (article 8-E).
 - A close cooperation shall be performed between ENSREG WG1 and WENRA-RHWG (GR 1 – RHWG close cooperation on Thematic Peer Reviews)

06

HERCA-WENRA Approach

06 HERCA-WENRA Approach

- WENRA and HERCA have developed and agreed on a new approach to further improve the response and cross-border coordination for all types of possible accident scenarios including severe accidents, like the one in Fukushima.
- overarching principles for joint actions between neighbouring countries.
- The regulators have committed to engage a cooperation at national level with the competent authorities in charge of civil protection for the implementation of the corresponding measures.

07

Summary

07 Summary

- Actions taken by WENRA due to lessons from Fukushima
 - Review and revision of SRL, published in autumn
 - New guidance documents on natural hazards and design extensions
- WENRA recommendation in connection with flaw indications in Belgian reactors – A document has been prepared and soon published on activities following the recommendation.
- Promotion of “HERCA-WENRA approach” on management of nuclear crisis in Europe

Thank you

WENRA

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