

WENRA Post-Fukushima Achievements & remaining challenges

ENSREG Second Regulatory Conference on Nuclear Safety in Europe
Brussels 11-12 June 2013
Hans Wanner, WENRA Chairman

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Basic facts

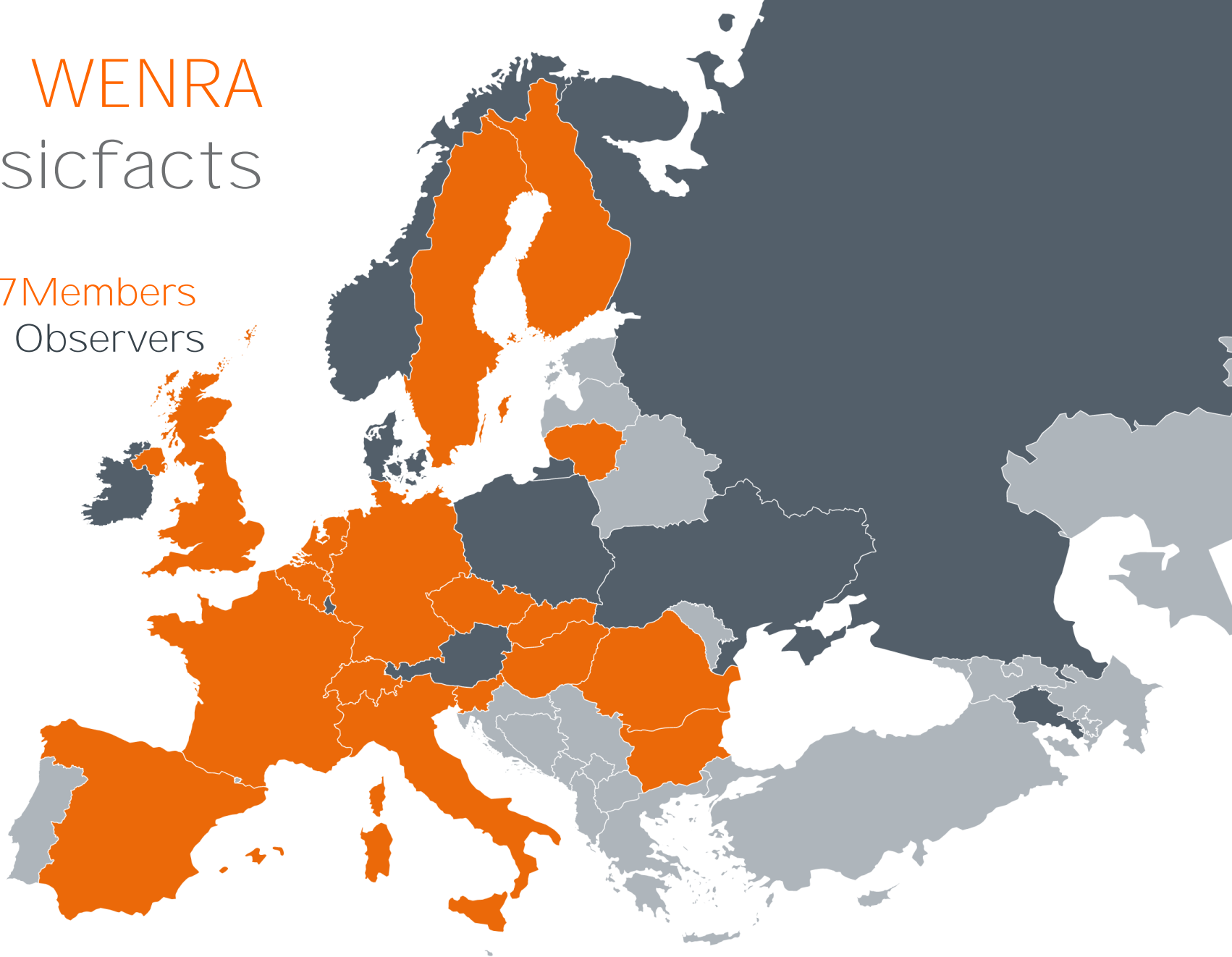
- “ Association of the Heads of nuclear regulatory authorities of the EU countries with NPP and Switzerland
- “ Original Terms of Reference signed on 4 February 1999
 - “ Revised on 14 March 2003
 - “ Revised on 26 March 2010

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01 WENRA

Basicfacts

- 17 Members
- 9 Observers



01 WENRA

Policy Statements

- “ Commitment to continuous improvement of nuclear safety
- “ Nuclear safety and radiation protection are the primary responsibility of the operator
- “ Common approach to nuclear safety

O1 WENRA

Working Groups

RHWG Reactor Harmonization Working Group

WGWD Working Group on Waste and Decommissioning

Ad-hoc Working Groups

02

Reactor Harmonization Working Group RHWG

02 RHWG

WENRA Actions (Spring 2012)

WENRA actions arising from the Consideration of the Lessons from the TEPCO Fukushima Daiichi Nuclear Accident

à To review and update existing Safety Reference Levels (SRL)

à To develop guidance documents

“ Institutional

- I.1 Independence
- I.2 Roles and responsibilities
- I.3 Periodic Safety Review
- I.4 Mutual Assistance

“ Cultural

“ Technical

- T.1 Natural Hazards
- T.2 Containment in Severe Accident
- T.3 Accident Management

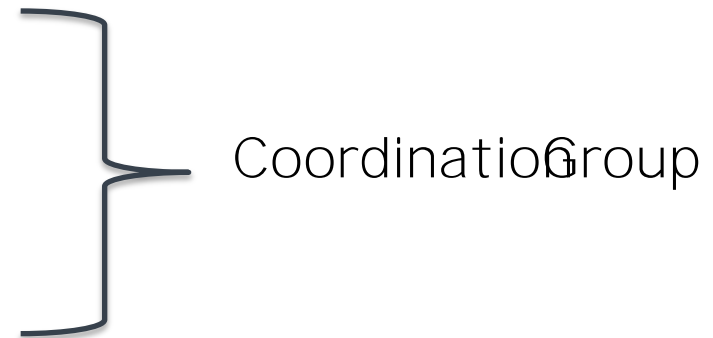
02 RHWG

Recommendation of the ST Peer Review

“The peer review Board recommends that WENRA, involving the available expertise from Europe, develop guidance on natural hazard assessments, including earthquake, flooding and extreme weather conditions, as well as corresponding guidance on the assessment margins beyond the design basis and on effects”

Creation of 6 new working groups in the RHWG:

- “ Mutual Assistance
- “ Natural Hazards
- “ Containment in severe Accident
- “ Accident Management
- “ Periodic safety review



02 RHWG

RHWG: EU Stress Test Followup actions

WENRAToR

I.4 Mutual Assistance



Preparation of a Booklet

WENRAToR

T.1 Natural Hazards

T.2 Containment in SA

T.3 Accident Management



Review and update existing SRL in the light of Fukushima & L

ENSREG

I.3 Periodic Safety Review



Position Paper (March 2013)

02 RHWG

I.4 Mutual Assistance

ToR

To review and develop arrangements for mutual assistance amongst regulatory bodies in responding to nuclear accidents in one of WENRA member states or elsewhere

Status

- “ 12 actions identified and proposed
- “ 2 actions are common with HERCA (Heads of the European Radiological protection Competent Authorities)

02 RHWG

T.1 Natural Hazards

ToR

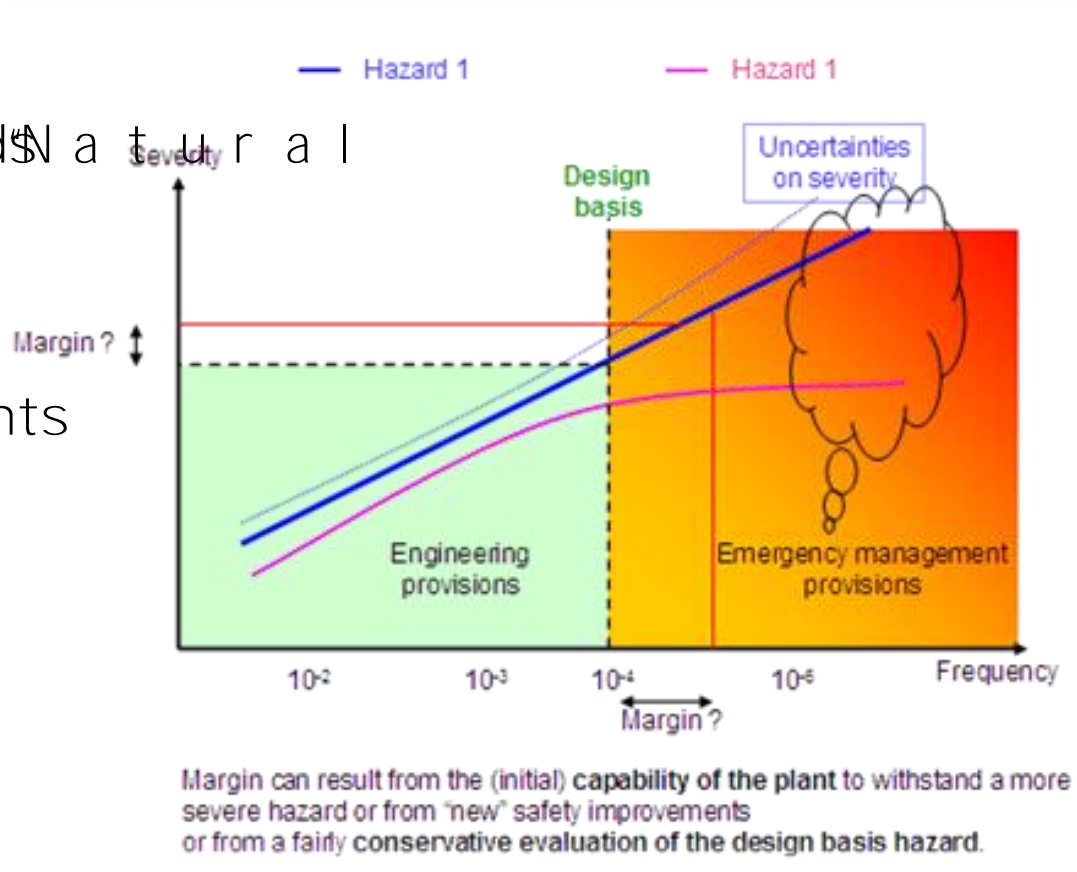
- “ To review existing regulatory requirements, principle guidance in WENRA countries and international organisations
- “ To produce updated harmonised guidance for the establishment of natural hazards, their assessment and the corresponding assessment for “robustness” (“ f c e l c i t f s f ”)
- “ To use such guidance to determine the need to revise any relevant WENRA SRLs

02 RHWG

T.1 Natural Hazards

Status

- “ New S R L on hazards, Natural
- “ Guidance document
- “ New aspects
 - harmonised requirements on natural hazards
 - beyond design events
 - uncertainty of low frequency extreme weather conditions



02 RHWG

T.2 Containment in Severe Accidents

ToR

- “ To review the SRL in light of the measures identified to prevent containment overpressurization
- “ To include the SRL relevant to hydrogen mitigation and containment venting

02 RHWG

T.2 Containment in Severe Accidents

Status

- “ Update of SR includes
 - Consistent consideration of spent fuels
 - Consideration of explosive gases from neighbouring buildings
 - Instrumentation for severe accidents
 - Supplementary control room
- “ Many SRLs are cross-cutting issues with the WG on Accident Management
 - à Further work in collaboration with WG Th.3

02 RHWG

T.3 Accident Management

ToR

To review SRL in light of the measures identified in relation to organizational and material arrangements to prevent or mitigate significant radiological releases

02 RHWG

T.3 AccidentManagement

Status

- “ Revised SRL in particular for design extension, emergency operating procedures and SAMG
- “ Guideline for design extension for existing reactors
- “ Cooperations
 - WG on containment in severe accidents
 - OECD/NEA Task Group on Accident Management

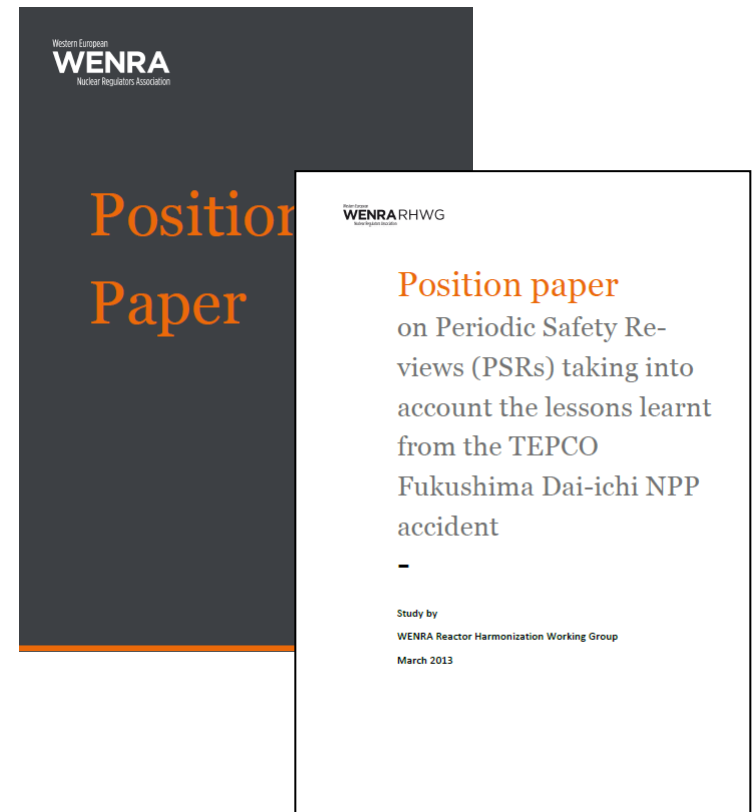
02 RHWG

I.3 Periodic Safety Review PSR

ToR

- “ Review of PSR with regard to PSR
- “ WENRA Position paper on Periodic Safety Reviews (March 2013)

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02 RHWG

I.3 Periodic Safety Review

Status

- “ PSRs are important for continuous improvement of safety
 - PSRs shall be made periodically, at least every 10 years until decommissioning of the plant
 - Consideration of multiple unit aspects
- “ Licensee has the prime responsibility for performing PSRs
- “ All reasonably practicable improvement measures shall be taken by licensee as a result of the review

02 RHWG

Co-ordination Group

ToR

- “ To review overall consistency of revised SRL
- “ To verify the consideration of the Fukushima
- “ To incorporate comments from RHWG

02 RHWG

Safety Reference Levels

Issues

A	Safety Policy
B	Operating Organisation
C	Management System
D	Training and Authorization of NPP staff
E	Design Basis Envelope for Existing Reactors
F	Design Extension of Existing Reactors
G	Safety Classification of Structures, Systems and Components
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
N	Contents and updating of Safety Analysis Report
O	Probabilistic Safety Analysis
P	Periodic Safety Reviews
Q	Plant Modifications
R	On-site Emergency Preparedness
S	Protection against Internal Fires
T	Natural Hazards



Thank you.

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