WENRA

Current activities of WENRA

5th GNSSN Steering Committee Meeting
Vienna, 1 December – 3 December 2014
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Head of WENRA Technical Secretariat
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5th GNSSN Steering Committee Meeting
Vienna, 1-3 December 2014

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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
WENRA Working Group on Waste and Decommissioning 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

- Umbrella Document
- Storage
- Conditioning
- Disposal
- Decommissioning
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
WENRA Reactor Harmonization Working Group RHWG
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
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342 Safety Reference Levels
WENRA Recommendation on flaw indications
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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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)
HERCA-WENRA Approach
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

• 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

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