ENSREG and Stress Tests

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ENSREG – who are we?
European Scene

- In European Union …
- … there are almost 150 power reactors…
- … in 15 EU member countries,
- producing ~1/3 of all electricity in EU

We must keep them operating safe!
Before 2000

• Nuclear Safety was only national responsibility
WENRA, a voluntary club

- “Bottom up” approach to harmonisation

WENRA – nuclear regulators

Country 1  
Regulator  
Operator  
Rules

Country 2  
Regulator  
Operator  
Rules

Country 3  
Regulator  
Operator  
Rules

E. Commission DGTREN
ENSREG – after 2007

- “Top down” advisory body

ENSREG – 27 EU regulators + EC

Country 1
Regulator
Rules
Operator

Country 2
Regulator
Rules
Operator

Country 3
Regulator
Rules
Operator

...
What is now better?

- WENRA – nuclear regulators
- ENSREG – 27 EU regulators + EC
- WENRA Reference Levels

Country 1:
- Regulator
- Rules
- Operator

Country 2:
- Regulator
- Rules
- Operator

Country 3:
- Regulator
- Rules
- Operator

E. Commission DGTREN

Post-Fukushima Stress tests peer review

Public Meeting

17 January 2012

European Nuclear Safety Regulators Group
Nightmare of 11 March 2011
• Beneficial conversion of mass to energy turned into disaster
- The feedback loop for assuring perfection has failed!
- Trust of the society was lost!
EU response to Fukushima
Stress Tests

- 11 March: Fukushima accident occurs
- 24 – 25 March: European Council Requests
  - Stress tests to be developed by European Nuclear Safety Regulators Group (ENSREG), the Commission and WENRA
  - Safety of all EU plants should be reviewed
  - Scope of review developed in light of lessons learned from Japan
  - Assessments conducted by national Authorities
  - Assessments completed by a peer review
Development of Stress Test Methodology

- Methodology drafted by WENRA in April
- Agreed to by ENSREG in May
- On 25 May 2011 ENSREG including the European Commission published the ENSREG declaration that described EU Stress Tests methodology
Stress Test Implementation

15. 8. 2011 Operators submitted progress reports
15. 9. 2011 National progress reports submitted
31. 10. 2011 Operators submitted final reports
8. 12. 2011 EU Council informed about progress
31. 12. 2011 Final National reports submitted
The Peer Review Process
The process

- WENRA prepared first draft in June
- Task Force formed in July
- Involvement of stakeholders
- Number of meetings and discussions
- The Methodology endorsed by ENSREG on 12 October
Milestones

- EU Council expects the final report in June 2012
- EC expects the report from ENSREG by end of April
- Peer Review started on 1 January
- Majority of work will be done in February/March
- The report will be finalised in April
What to expect from Stress Tests?
Stress Tests are:

- Quick overview of NPP resistance towards external events
- Kind of very condensed Periodic Safety Review
- Intensive learning lessons after Fukushima
- Looking for common EU issues
Stress Tests are not:

- Detailed safety reanalysis of individual NPPs
  - This might be requested later by national regulators …
- Review of operational safety and safety culture issues
- Review of national emergency preparedness
- Review of security issues
Stress Tests are:

- Supplement and trigger for additional work of operators and regulators
- Logical step after such a serious event as Fukushima
- A step in a strive for continuous improvements in all aspects of nuclear safety
- Contributing towards consistency among different national regulatory approaches
What after Peer Review?

- Regulators and operators will get input for further improvements
- Safety level of EU NPPs will be more harmonised
- Public will have more insight into the work of nuclear industry
- Ideas for improvement of EU legislation could emerge
What do we do today?

- Present and discuss the process
- Gather first impressions
- Collect ideas and questions about the process of the Peer Review
- Collect specific questions
What we can not do today?

- Make any judgements about results of Stress Tests
- Make any comparisons between countries
- Answer to detailed specific questions
- The above could be done in April and May
Looking forward to today’s discussion after next presentations of the Peer Review Team members.