

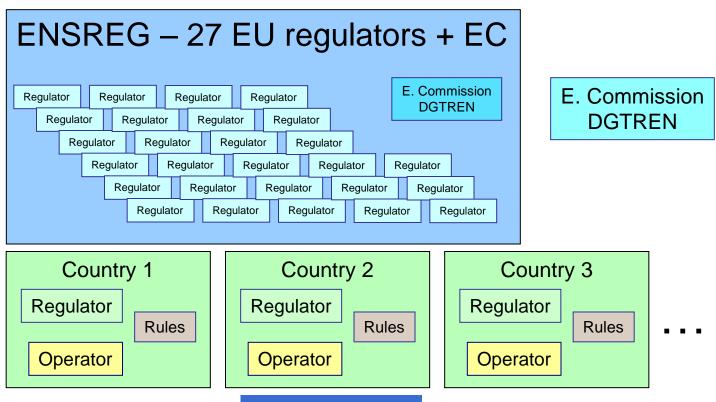
Conclusion of Stress Tests

The end of the intense campaign

Andrej Stritar Chairman, ENSREG



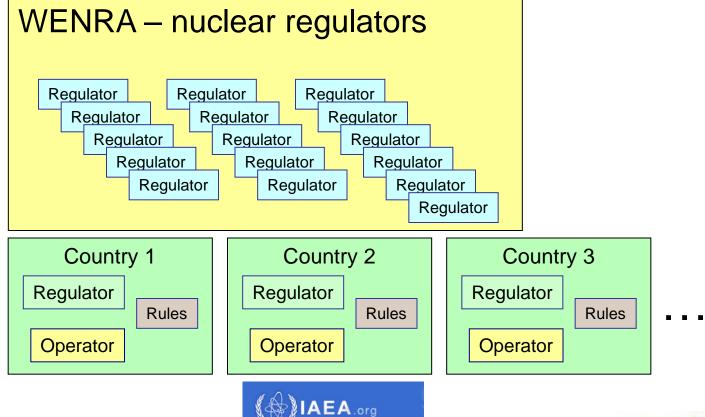
ENSREG, an advisory body







WENRA, a voluntary club





Nightmare of 11 March 2011

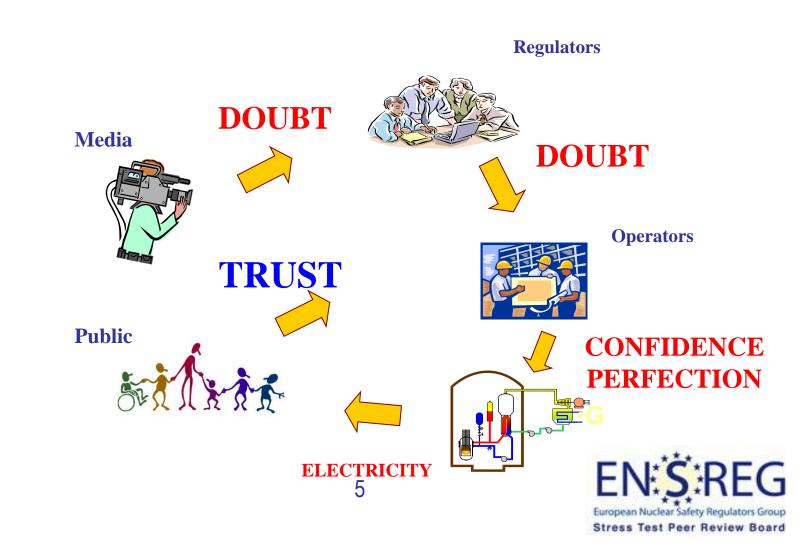
Public Meeting

 Beneficial conversion of mass to energy turned into a disaster





- The feedback loop for assuring perfection has failed!
- Trust of the society was lost!



Stress tests
peer
review

Public Meeting

Stress Tests were about restoring confidence and regaining trust by further improving nuclear safety



Why Fukushima has happened?

- Tsunami is a very rare natural disaster.
- It was underestimated during the design, there was not enough knowledge about it.
- Safety margins were too small.
- Uncertainty of our understanding of natural phenomena should have been compensated by bigger conservatism – higher protective dikes!



Fukushima concerns

Public Meeting

The main lessons learned from Fukushima were actually the main objectives of our Stress Tests:

- Did we properly take into account uncertainties of all potential external hazards?
- Are our plants robust enough, are safety margins big enough?
- Are we able to cope even with extremely low probability events?

EU Stress Tests

- May 2011: Detailed specifications
- Intensive work by operators and regulators
- End of 2011: National Reports
- Spring 2012: International Peer Review.
- Hundreds of man-years were invested.
- Stakeholders involvement, transparency.
- More in next presentations



What was achieved?

- Many immediate hardware and organisational improvements in the plants.
- Many plans for further improvements in the near future.
- Intensive harmonisation of accident mitigation practices in NPPs.
- Plans for long term conceptual improvements on international level.



What is still missing?

- The **Security Track** of EU Stress Tests is expected to report by the end of month.
- During the year the issue of off-site emergency preparedness has proven to deserve even more attention.
- Long term ENSREG action plan.



Global Impact

- EU Stress Tests became a global model
- Directly used in some countries (Japan, UAE, Russia ...)
- Important reference for all the others, including IAEA



What next?

- Stress Test campaign is over!
- All lessons learned and actions to be done will be included in our normal working processes.
- Majority has to be done by operators and national regulators.
- Common technical issues will be dealt by WENRA.
- ENSREG's special Task Force is preparing our action plan.
- Additional plant visits will be organised after proper objectives are defined.



Proper focus

- Stress Tests were about the design of plants and mitigation of accidents.
- Equally or more important is operational safety.

The focus of operators and regulators must be properly balanced between these three cornerstones of nuclear safety!



You will hear much more details in next presentations.

Looking forward to today's discussion!

