

General quality of national reports

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Peer Review Board

General Appraisal

- **Professional conduct** of the whole exercise **demonstrated strong commitment** of all involved parties (operators, regulators, other expert organizations) to learn from Fukushima event and identify possible safety improvements;

General Appraisal

- The generally good quality of stress test implementation at national level allowed this exercise to achieve all the intended goals:
 - effective peer review;
 - learning, information exchange and co-ordination of efforts at the European level;

Adequacy of Supplied Information

- In general terms, all the national reports addressed the three topics defined in ENSREG stress test specification;

Adequacy of Supplied Information

- In all cases some portions of information was missing or incomplete:
 - Differences in approach, both in the methodology of „testing“ and in the form of reporting;
 - Exercise is novel, unique in nature and (moreover) information from Japan is not yet complete and finally analyzed;

Adequacy of Supplied Information

- Peer review experts used effectively topical discussions organized in Luxembourg and seventeen country visits to:
 - Complete the reviews as required by ENSREG specifications;
 - Obtain the information and evidence needed for drawing concise conclusions;

Adequacy of Supplied Information

- Taking into account all the circumstances, identified **variations were finally found acceptable** and did not impact the outcome of the stress tests peer reviews;
- All participating countries reported that a number of **additional activities are still ongoing or planned** to be started in near future;

Adequacy of the Assessments

- Plant compliance with their current licensing bases was reviewed both by operators and regulators drawing on their regular safety assessments;
- Peer reviews demonstrated that although countries used (to a certain extent) different approaches, all the national reports provided clear evidence of plant compliance with current licensing basis;

Adequacy of the Assessments

- Development of updated IAEA standards and WENRA reference levels over the last decade clearly supported improvements in consistency between the European countries in terms of general acceptance criteria;
- This ensures compliance with international best practices;

Adequacy of the Assessments

- Assessment of robustness:
 - **For topic 1** peer review experts identified that the evaluation of margins beyond the design basis and cliff edge effects is not consistent in participating countries. This resulted in one of the main recommendations;
 - **For topic 2 and 3** experts concluded that safety margins and cliff-edge effect determination was generally in line with ENSREG specifications;

Adequacy of Regulatory Response

- From very beginning national **regulators screened information** coming **from Japan** or through international organisations, mainly the IAEA;
- **Regulators** were **involved in** **communication** with their public and their Governments;

Adequacy of Regulatory Response

- In many countries immediate checks were performed even before the ENSREG stress test specifications were agreed upon. Some Governments demanded reports on such checks before the summer 2011;

Adequacy of Regulatory Response

- In all cases, national regulators reviewed the conduct and results of stress tests by licensees;
- Regulatory actions included:
 - dedicated inspections;
 - decisions/requirements applied;
 - their own independent investigations;

Adequacy of Regulatory Response

- Some of the regulators already reported about their requests for and/or approvals of improvement or remediation measures;
- Some regulators decided for a more gradual approach where the final decisions on programs and measures to be implemented will be made after comparison with European exercise conclusions;

Thank You!!