6th INPRO Dialogue Forum on Global Nuclear Energy Sustainability: Licensing and Safety Issues for Small and Medium-sized Nuclear Power Reactors (SMRs)

29 July - 2 August 2013
IAEA Headquarters, Vienna, Austria

Chairman’s Summary Report
Themes

- Licensing and safety breakout session top 10 findings
- Sharing of information on SMR technologies
- International licensing or certification
- International cooperation
- Standards and guides

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Key Findings from the Breakout Sessions (1)

- IAEA Safety Standards are fundamentally sound but require adjustment
- The fundamental cornerstone of safety defence-in-depth must not be changed
- Multi-module plants require additional consideration
- Transportable Nuclear Power Plants (TNPPs) require additional consideration
- SMR deployment and local infrastructure considerations
Key Findings from the Breakout Sessions (2)

- Approach to emergency planning and response
- Approach to overall staff complement: operators, support and security
- Further development of engineering standards needed
- The industry and regulators have not yet truly engaged with the public to assist its understanding
- Embarking countries have particular needs
Sharing of Information on SMR Technologies

• During the plenary discussions of the forum and the breakout sessions there were a number of requests for a more central sharing of information on SMRs

• Recommendation: MS to identify the type of information needed

• Recommendation: IAEA to explore whether it can act as a central repository
During the plenary presentations, panel discussions and breakout sessions, participants proposed the concept of international licensing and design certification.

- **Recommendation:** Proponents of such an approach elaborate a more detailed vision.
- **Recommendation:** Regulators consider whether there is any fundamental difficulty with such an approach.
International Cooperation

• The INPRO Dialogue Forum is a proven means of cooperation among vendors, proponents and regulators
• The Regulatory Cooperation Forum (RCF) is an important venue to assist regulators of embarking countries
• A number of countries have requested that a “SMR Regulators’ Forum” be considered
International Cooperation

- Recommendation: IAEA continue to actively continue engagement on SMR activities – both through INPRO and the Division of Nuclear Safety Installations
- Recommendation: The RCF ensures it is open to consideration of SMRs in embarking countries
- Recommendation: Interested MS with assistance from the IAEA take exploratory steps to establish a “SMR Regulators’ Forum”
Standards and Guides

• IAEA Safety Standards requirements are to a large degree applicable to SMRs
• IAEA Safety Guides – applicability requires verification
• Industrial standards – incomplete or applicability unclear or yet to be determined

• Recommendation: MS to include a General Conference Safety Resolution regarding the importance of the safety of SMRs and the need for safety standards and guides
• Recommendation: Vendors/utilities engage with Standard development organisations to ensure that standards are ready prior to licensing
Final remarks

• Excellent collaboration by all
• Openness and transparency in sharing knowledge and experience will be needed
• Use of existing collaboration mechanisms, if possible
Thank You!

• To the participants
• To the leads and co-leads
• To the scientific officers and other Agency staff, including the conference clerks