

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

Summary of Plenaries

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Monday Sessions



- Welcome and introductory remarks from IAEA and Forum leaders
 - Large turnout of Member States and experts
 - High level of interest in SMR development and deployment in TH and TU countries
 - Challenge: reconcile dilemma of “new SMRs” versus “proven” technology
- “Stage-setting” presentations
 - Summary of global SMR developments
 - Safety and licensing issues derived from Consultancy Meeting
 - Design and licensing process overviews

Monday Sessions (cont'd)



- Member State presentations
 - Examples of licensed SMR designs (KLT-40S, SMART)
 - Example of relatively new design (Flexblue)
 - Examples of SMR licensing programs (Canada and USA)
 - Example of national SMR development program (USA)
- Panel session on issues, challenges and opportunities for SMRs
 - Lots of good discussion

Tuesday-Wednesday Sessions



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- INPRO background
 - Methodology
 - Projects
- International cooperation
 - WENRA for regulatory issues
 - WNA/CORDEL and ASME for codes & standards
 - OECD/NEA for economic assessment
- Proposal for SMR Regulator Forum

Personal Observations



- 2008-2009 INPRO CUC started the process
 - Chartered to be for SMRs but became size-neutral
 - Only large plant designs were certified
 - “SMR” was unfamiliar concept for embarking countries
 - Message was clear: Need low risk NPPs
- 2013 6th Dialogue Forum:
 - Most embarking countries acknowledge “SMRs appear to be our solution”
 - Anticipated benefits understood well
 - But there are still many questions and issues

- The diversity of designs is overwhelming
 - Intended to offer choices but creates confusion
 - MSs want help in sorting through the options:
 - Clear, simple indices/metrics to compare designs
 - Sub-categorization (iPWR, TNPP, micro?)
- Lots of interest in design and licensing detail
 - Defer to Technology Assessment Meeting in Sept.
- Special interest in “modular” (multi-unit) plants
 - Also lots of questions (design and operational)

Bottom Line



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IAEA has done an exceptional job at facilitating dialogue among Member States, including both TH and TU countries.

Progress in dialogue is impressive.

Job is not over.