



MDEP Conference on New Reactor Designs

Session 7: Industry Initiatives

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**A Case for Standardisation of Designs
And Harmonisation of Standards**

Peter Bester - MDEP STC Member

Countries with Small Nuclear Programmes

Common problems faced by small regulators include:

- **Dealing with imported technology,**
- **Codes and Standards as discussed in Session 4**
- **Difficulties in implementation of full scope of the vendor's modifications, operating practices**
- **Regulator having to deal with the same range of technical issues as the bigger regulators.**
- **Deviation from the modifications of the vendor country also results in problems in terms of not having a sufficiently large family of similar plants for OE purposes, and acquisition of spares parts.**

Standardisation might also help to reduce the cost which would enable the smaller countries to keep abreast and would be extremely desirable in this regard.



New Countries Embarking on NPP programmes (1/2)

Issue: We might be faced in future with the prospect of new countries licensing nuclear power plants that have not been licensed elsewhere

- IAEA initiatives and support programmes in place assisting countries to establish legal and regulatory infrastructure needed for NPP's**
- FNRBA initiatives in infancy stage working towards convergence and harmonising of regulatory standards and practices recognising international safety standards and conventions**
- New countries will face similar problems as small countries but also issues relating to competence and credibility of authorisation processes**



New Countries Embarking on NPP programmes (2/2)

Question: What can be done to ensure that if such a scenario arise that safety is not compromised?

- **Harmonisation of standards: address credibility of authorisation process**
- **Standardisation of designs: address issues as mentioned for small regulators**
- **Recognise limitations of local technical infrastructure and environmental conditions that could impact safety, security, safeguards and EP.**
- **Ensure that proven technologies suitable for the local factors are available on the market that have been licensed/certified elsewhere and have pedigree.**
- **Support countries with credible programmes to establish national infrastructure**

