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

Introduction of Group 4:
Legal and Regulatory Framework of SMRs

Group Leader
Mr. Stewart Magruder
1. Session Overview

1.1. Background information

• SMR designs and concepts of operation may challenge existing laws and regulations

• Regulators should be prepared to license SMRs

• Focus of group discussion will be on the following:
  • Sharing experiences regarding licensing (and preparing to license) SMRs
  • Identifying IAEA documents that may need to be modified or created to facilitate licensing of SMRs
  • Identifying other standards that may need to be modified or created to facilitate licensing of SMRs
1. Session Overview

1.2. Description of key issues

- Plant staffing
- Transportation of fueled-NPPs (modules)
- Licensing process for multiple modules
- Identification of required changes to safety standards
- Standardization of portion of design and safety classification
2. Session organization and process

2.1. Group formation

- Leaders
  - Stewart Magruder, USNRC
  - Myung Jo Jhung, KINS

- Facilitator
  - Russell Gibbs, IAEA

- Rapporteur
  - TBD

- Members
  - TBD
2. Session organization and process

2.2. Discussion process outline

- Overview by session leaders
- Presentation by IAEA staff on IAEA Safety Standards
- Confirmation of key issues
- Break up into groups of 5 – 10 for discussion
- Periodically report small group discussions to entire group

2.3. Main points of discussion

- Where gaps in guidance and requirements may exist
- Paths forward for IAEA, member states, and standards organizations
3. Potential Case Studies

3.1. Staffing requirements for SMRs

3.2. Transportable Nuclear Power Plants