15th Dialogue Forum on Sustainable Supply Chain for Advanced Nuclear Power Systems

Chair’s Summary

4 July 2018

Juergen Kupitz
INPRO Dialogue Forums

- Bringing together technology holders and users to jointly consider international and national actions for achieving innovations in nuclear reactors and fuel cycles

- To support Member State efforts that keep nuclear energy available to contribute to meeting sustainable energy needs of the current century and beyond
Main objectives:

- Discuss the National, Regional and Global Situation of Nuclear Supply Chains
- Identify Key Issues and Challenges
- Identify Proactive Methods to Avoid Supply Chain-related Issues
- Recommendations for the IAEA

Participation and structure:

- 45 experts from 31 Member States and International Organizations
- 15 IAEA staff from 5 Sections and 2 Divisions
- 8 plenary sessions and 3 break-out sessions
Main results of 15th INPRO DF

15 papers from technology holders and technology users were presented during the Session for Member States

Technology Holders:

- Establishment of a supply chain is a costly and long term process
- Gradual establishment of supply chains, starts with non nuclear graded components and structures and services
- Supply chains are usually based on regional and/or international networks of supply
- Step by step approach for localization, the first order is usually dependent on a strategic partner who provided a turnkey project
- Cost benefit analyses of localization, national nuclear strategy is required with the domestic supply chain based on plans for the introduction of several plants
- Intensive interactions are required between technology holders and users, which should be facilitated by government cooperation
Main results of 15\textsuperscript{th} INPRO DF

Technology Holders (continued)

• Experience and lessons learned were reported
• Supply chains may involve risks (including CFSIs)
• Continued review, oversight and inspection is required
• In some cases CFSIs resulted in unplanned shut downs and delay of granting license for NPP operation
Main results of 15th INPRO DF

Technology users

- Ambitious plans to establish localization were reported.
- Establishment of supply chains has to be started long time before ordering a plant.
- Identification and review and qualifications of potential local industries and institutions for their capability to contribute to structures, components, regulations and IT programmes.
- Gradual establishment of supply chains, starting with non nuclear graded components and structures and services.
- Governments are expected to encourage cooperation between vendor and potential local contributors to prepare for the localization, and to promote a nuclear safety culture and to develop quality and safety procedures to meet vendor requirements.
Main results of 15th INPRO DF

Technology users (continued)

- overall goal of localisation is to get the full benefit of the economic and social advantage of the introduction of nuclear energy, however, it is important that member states are aware of related risks
Main results of 15th INPRO DF

Sessions for International Organisations including IAEA

- 9 papers from 5 International Organisations were presented describing their programmes and services for countries which are planning to establish supply chains for nuclear projects.
- IOs may provide an overall umbrella for information exchange, cooperative research, preparation of data bases, standards and guide books as well as organisation of expert missions.

Several recommendations were made (Group3)

- Establishment of Intl. platform on info exchange on regulations and standards
- Organizing intl. training on supply chain management incl CFSI issues
- Give continuous support for involvement of young generation
Recommendations from Group 1 and 2

- Provide assistance to Member States to become informed customers
- Training and support on quality management programmes
- Continuous efforts to de-risk new build programmes
- Provide a periodic forum to review management of national programmes and preparation of guidelines for the establishment of sustainable localization with economic models
Main results of 15th INPRO DF

Sessions for International Organisations including IAEA (continued)

- Countries interested in building up nuclear supply chains are strongly encouraged to make use of programmes and services of IOs and NGOs to collect information and get support and advice for the establishment of suitable supply chains.
...Thank you for your attention