



**IAEA**

**International Atomic Energy Agency**

*Atoms for Peace*

**Consultancy**  
**on**  
**GIF-IAEA Interface Meeting**

**IAEA Headquarters**  
**Vienna, Austria**

**4–5 March 2015**

**Ref. No: I4-CS-49828**

**Terms of Reference**

**A. Background**

The Generation IV International Forum (GIF) is focused on RD&D on six selected innovative nuclear reactor design concepts. As part of this activity, GIF working groups have developed and maintain a suite of tools to analyse and compare different design alternatives related to the GIF reactor concepts from the perspectives of: 1) economics and sustainability, 2) safety and reliability, and 3) proliferation resistance and security.

INPRO Section has developed an internationally recognized methodology for nuclear energy system assessment (NESA) of sustainability that has and is being used by several Member States as part of their NES planning activities. The existing INPRO Action Plan also has projects focused on the long-term global and regional development of NES, considering both existing and future technologies. In addition, projects on specific subjects of interest regarding technology and institutional innovation are being implemented in close cooperation among INPRO Members. Moreover, INPRO provides a

Dialogue Forum for technology holders and users (including both experienced and “embarking” States) to share information of mutual interest. There are other international initiatives (e.g., GIF, IFNEC and SNETP) that share common goals with INPRO to help ensure the sustainable development of nuclear energy within the current century and beyond.

The Nuclear Power Technology Development Section (NPTDS) promotes and facilitates information exchange and collaborative research and development in the area of advanced nuclear reactor technologies. Evolutionary and innovative advances for all reactor lines (advanced water cooled reactors, fast reactors, high-temperature gas-cooled reactors) are supported including small and medium sized reactors. Applications include seawater desalination, process heat and hydrogen generation in addition to electricity production. Activities are informed and directed by member states through technical working groups (TWG) in the different technologies. Information is disseminated to Member States through publications (NE series, TECDOCs etc.), training simulators, databases (ARIS) and toolkits.

Shared interests between GIF, INPRO, NPTDS and other IAEA offices have been confirmed in eight interface meetings held at the IAEA since 2003, having convened most recently in March of 2014. Areas of technical dialogue, coordination and cooperation have been explored in each of these meetings. Since the mutual areas of interest involve activities of interest to additional offices of the IAEA, INPRO and NPTDS encourages other IAEA offices to participate in the interface meetings to continue the technical exchange and to explore and develop opportunities for cooperation. Example outcomes of these meetings include on-going collaboration between INPRO and two GIF working groups on topics of proliferation resistance and economics. Moreover, a decision was taken by NPTDS and GIF to hold joint workshops on safety design criteria (SDC) for sodium cooled fast reactors (SFR). Four of these workshops have been held, with satisfactory results, in 2010, 2011, 2013 and 2014.

## **B. Objectives and deliverables of the Meeting**

The objectives of the Meeting are as follows:

- Exchange information on the progress, status and future plans of activities related to RD&D and technology innovations of NES, including Gen IV reactors.
- Monitor progress and update status of action items agreed in the previous interface meeting.
- Continue exploring new areas having potential for cooperation and identifying action items and establishing priorities for further consideration.

## **C. Participants**

The list of participants from INPRO Section and other IAEA offices may include (but is not limited to):

- Mr JC Lentijo, Mr C Hill, Mr J Lyons, Mr A Ulses, Mr J Yllera, Mr D Shropshire, Mr I Jalal, and Mr F Toth
- The NENP Director and Heads and staff of NENP Sections (INPRO, NPTDS, NIDS, NPES)

GIF will provide a final list of participants from their side, about 20, including representatives from their other main functional organizations and reactor systems.

## **D. Working Language**

The working language of the meeting will be English with no interpretation provided. All communications, abstracts and papers must be submitted in this language.

## **E. Venue**

The assignment will commence on Wednesday, 4 March 2015 at 9:30 a.m. in Room VIC C0343, Building C of the Vienna International Centre (VIC). Meeting participants are requested to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the meeting on the first day, in order to allow sufficient time for issuing of grounds passes, which are necessary for official visitors to the VIC.

## **F. Visas**

Participants who need a visa for entering Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria as early as possible.

## **G. Organization**

Official correspondence with regard to the technical aspects of the meeting should be addressed to the Scientific Secretary:

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