



IAEA

International Atomic Energy Agency

Atoms for Peace

Consultants' Meeting

IAEA – GIF Workshop on Operational and Safety Aspects of Sodium Cooled Fast Reactors

23 – 25 June 2010

IAEA Headquarters, Vienna, Meeting Room M-5

FINAL AGENDA

Chairperson: *to be determined (Mr J. Bouchard accepted the chairmanship)*

Scientific-Secretaries: *Randy Beatty, Alexander Stanculescu (IAEA)*

Scope and Objective of the Consultants' Meeting

The scope of the Consultants' Meeting covers the various **national Sodium Cooled Fast Reactor (SFR) safety approaches and goals**.

The main objective of the Consultants' Meeting is to provide a forum for national experts to present the **rationale underlying these various approaches**. Since IAEA Member States with previous SFR experience and/or with current SFR development programs are **following different paths for achieving similar safety goals**, the **specialists participating in the Consultants' Meeting will present, on the one hand side, the national analytical and science based approaches to address SFR safety concerns, and, on the other, the respective approaches for improvements**.

The presentations are expected to be **based on analyses, experiments, the licensing experience, as well as on safety related operational and construction experiences**.

The presentations are further expected to **cover methods (codes and data) development, validation and qualification programs**. In this context, the presentations are expected to address also the **description of the experimental facilities (in operation and planned) related to SFR safety research and technology development, as well as the programs implemented and the results obtained at these facilities**.

Wednesday, 23 June 2010

10:00 – 11:30

Opening (chaired by Mr Randall Beatty, Workshop Co-Scientific Secretary)

- Introduction of participants
 - Approval of the Agenda and nomination of Chairperson
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Opening remarks (5 minutes each)

- IAEA (Mr Jong Kyun Park)
 - GIF (Mr Yutaka Sagayama)
 - Member States representatives
 - China (Ms Ren Lixia)
 - France (Mr Jacques Bouchard)
 - India (Mr Baldev Raj)
 - Japan (Mr Yutaka Sagayama)
 - Republic of Korea (Mr Dohee Hahn)
 - Russian Federation (Mr Valery Ratchkov)
 - USA (Mr Peter Lyons)
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11:30 – 13:00

Review of safety related SFR experimental and operational experience

- China (Ms Ren Lixia)
 - France (Messrs Anzieu/Sauvage/Fiorini)
 - India (Mr Baldev Raj)
 - Japan (Messrs Nakai/Kotake/Okano)
 - Republic of Korea (Messrs Dohee Hahn/Hae Yong Jeong)
 - Russian Federation (Mr Yury Ashurko)
 - USA (Mr Roald Wigeland)
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13:00 – 14:30 Lunch Break

14:30 – 15:20

SFR safety approaches, review processes, and approaches to licensing

- Safety Approach of Gen-IV systems; Application to SFR (Mr Gian Luigi Fiorini on behalf of GIF – RSWG)
 - Review of IAEA Safety Standards Series No. NS-R-1 (Mr Marco Gasparini)
 - IAEA/NE Technical Working Group on Fast Reactor (TWG-FR) Activities (Mr Alexander Stanculescu)
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15:20 – 15:30 Coffee break

15:30 – 18:10

SFR safety approaches, review processes, and approaches to licensing, cont'd

- China (Ms Ren Lixia)
 - France (Messrs Anzieu/Sauvage/Fiorini)
 - India (Messrs Chetal/Chellapandi/Mohanakrishnan)
 - Japan (Mr Ryodai Nakai)
 - Republic of Korea (Messrs Dohee Hahn/Hae Yong Jeong)
 - Russian Federation (Mr Yury Ashurko)
 - USA (2 presentations: Mr Roald Wigeland, and Mr Tom Kevern)
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17:50 Adjourn

18:30 Social event (to be announced)

Thursday, 24 June 2010

9:00 – 11:00

Substantiation of safety approaches and safety design goals: ongoing and planned R&D programs, i.e. analytical and science based approaches, as well as experimental programs

- China (Ms Ren Lixia)
 - France (Messrs Anzieu/Sauvage/Fiorini)
 - India (Messrs Chetal/Chellapandi/Mohanakrishnan)
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11:00 – 11:30 Coffe Break

11:30 – 13:00

Substantiation of safety approaches and safety design goals: ongoing and planned R&D programs, i.e. analytical and science based approaches, as well as experimental programs (cont'd)

- Japan (Mr Shoji Kotake)
 - Republic of Korea (Messrs Dohee Hahn/Hae Yong Jeong)
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13:00 – 14:30 Lunch Break

14:30 – 15:45

Substantiation of safety approaches and safety design goals: ongoing and planned R&D programs, i.e. analytical and science based approaches, as well as experimental programs (cont'd)

- Russian Federation (Mr Valery Ratchkov)
 - USA (Mr Roald Wigeland and Mr Tanju Sofu)
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15:45 – 16:00 Coffee break

16:00 – 17:00

High level discussion

- Identification of areas for international collaboration under IAEA *aegis* (e.g. modeling, sharing of experimental facilities and joint experimental programs, codes and standards, etc)
 - Need for additional similar SFR Workshops under IAEA *aegis*, identification of topics for such Workshops, etc
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17:00 Adjourn

Friday, 25 June 2010

9:00 – 11:00

Workshop summary

- Identification of areas of convergence and divergence with regard to
 - Safety goals and priorities
 - Safety review processes
 - Licensing experience
 - Design philosophies and technologies to meet the safety goals
 - Recommendations for international collaborative efforts under IAEA *aegis*
 - Recommendations for future SFR Workshops under IAEA *aegis*
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11:00 – 11:30 Coffe Break

11:30 – 13:00

Drafting of Workshop report

13:00 – 14:30 Lunch Break

14:30 – 15:00

Final discussion

15:00 Meeting adjourn
