

Minutes of the INRAG Meeting, September 21 and 22, 2019 in Vienna.

Participants: Oda Becker (only September 21), Paul Dorfman, Friederike Frieß (FF), Klaus Gufler (only September 22), Wolfgang Liebert, Dieter Majer, Helmut Mayer, Manfred Mertins, Gabriele Mraz, Nikolaus Müllner (NM), Emmerich Seidelberger, Christoph Pistner, Steve Thomas, Wolfgang Renneberg, Ilse Tweer

Non-INRAG member on September 22: Gerrit Niehaus

Location: TÜWI Conference Room, first floor, Dänenstraße 4, 1190 Vienna

1. Opening + Adoption of the Agenda

Not public.

2. Adoption of the minutes of the previous meeting

Not public.

3. Report of the Board (Chairman + Treasurer)

Not public.

4. Election of a new board (if required)

A new board is elected:

- Chair Nikolaus Müllner is confirmed unanimously.
- Vice chair Matthias Englert is confirmed unanimously.
- New treasurer is Friederike Frieß – unanimously.
- New secretary is Klaus Gufler – unanimously.

5. Date of the next meeting

The next meeting will be held on March 20 and 21 in Darmstadt, Germany.

6. Admission/suggestion of new members

Not public.

7. Motions

Not public.

8. Public Outreach

Not public.

9. INRAG project on aging nuclear power plants: status, outlook and discussion

Not public.

10. Answer to the letter of the BMU

Not public.

11. Topical Contributions

Update on FANC's reply on Doel 1/2 embrittlement (Ilse Tweer)

As a consequence of the EU court decision on Doel 1&2 an environmental impact analysis will be necessary. The presentation was focused on the special problem of RPV weld metal embrittlement based on a paper from R.Gerard „Life Management of Doel 1-2“, SCK.EN 1999. The observed embrittlement (surveillance program) is higher than expected by the US NRC Reg. Guide 1.99 rev. trend curves, the Cu content of the weld metal might be higher than in the surveillance specimens. The operator performed a modification of the Safety injection system and uses preheated safety injection water (35°C). The answer of FANC to questions of Greenpeace Belgium indicate that the demonstration of structural integrity is only based on the fulfilled PTS screening criterion. The presentation includes summarized concerns.

Ilse's presentation raises the questions who will continue her work the day she not willing or able any more.

Prospects for Small Modular Reactors and update on UK finances regarding Wylfa and Sizewell (Paul Dorfman, Steve Thomas)

Steve presented research on the prospects for Small Modular Reactors (SMRs). The research concluded that most of the reactors in the OECD were offered by new companies with no history of reactor supply and were only being pursued because of taxpayer/consumer subsidies. The fundamental rationale for SMRs was that savings from the use of production line manufacturing methods were more than counterbalance the lost scale economies that existing designs were based on

Paul elaborates a bit on the recent economic developments of the price for off shore wind the UK compared to the guaranteed price for nuclear energy from Hinkley Point C.

Update on Mochovce 3/4 (Nikolaus Müllner)

Nikolaus informed about developments regarding the allegations of gross incompetence during seismic reinforcement of EMO3&4 by Global 2000.

Request from Argentina to review IAEA Safety Fundamentals (Nikolaus Müllner)

Nikolaus reports that there are requests from Argentina to not use the Linear-no-threshold assumptions to calculate death rates after nuclear accidents. Currently this request is only present at a very low level but pursued with high intensity. NM wanted INRAG members to know about this.