



## **Exploratory workshop**

**"Ageing of nuclear power plants: a threat to nuclear safety?"**

**19<sup>th</sup> March 2014 from 9:00 to 14:00**

Brussels, European Parliament, room ASP 5E1.

### **Context**

Around one third of the European nuclear reactors are today over 30 years old. All European nuclear regulators and utilities are facing problems linked to this ageing of the fleet, which should be broadly understood as the physical degradation of structures, system and components (SSC) as well as the obsolescence of technologies, design, and losses in the transmission of human know-how.

Ageing directly impacts the possibilities of lifetime extension of nuclear facilities, one of the two key challenges (with nuclear waste) identified by the European Commission in its Strategic Energy Technology Plan. In this framework, the Commission proposed to add new Community safety objectives to the existing safety directive<sup>1</sup> so that plant life-time extension "does not expose the workers and the public to additional risks". The importance of ageing has also been directly acknowledged by the European Nuclear Energy Forum and more specifically by its Working Group on risks, which is drafting a proposal for a Commission recommendation on "harmonized conditions for the safe long-term operation of Nuclear Power Plants (LTO) in the European Union"<sup>2</sup>. This proposal defines among others the responsibilities of license holders as well as of regulatory authorities in charge of implementing harmonised safety LTO conditions.

For their part civil society organizations have taken the topic of ageing and its impacts on safety in hand but with few possibilities of expression. According to its engagement for the application of the Aarhus convention NTW is willing to organize an open discussion with MEPs, regulators and members of the civil society, in order to increase the transparency of the reflections already taking place and investigate the possibilities of public participation in policies trying to answer to NPP ageing.

### **Objectives of this exploratory workshop**

- To give participants a scientific background on ageing processes and their impact on nuclear safety
- To review the different practices in EU MS for ageing control and their resulting policies
- To evoke the stakes and possibilities of an EU common policy/position on ageing
- To assess the possibilities for public participation regarding policies responding to NPP ageing

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<sup>1</sup> Directive 2009/71/Euratom establishing a Community framework for the nuclear safety, in revision. See (27) p17 of the Council proposal.

<sup>2</sup> On the basis of Directive 2009/71/EURATOM

## Agenda

- 8:30**                    **Registration**
- 9:00-9:05**            **Introduction (Michèle Rivasi, MEP, NTW Chair)**
- Session I:**            **Ageing processes (moderator: Amalia Sartori MEP ) tbc**
- 9:05-9:25            1. Technical characteristics of ageing processes and their impacts on nuclear safety  
Speaker: Simone Mohr (Ökoinstitut) tbc
- 9:25-9:40            2. Uncertainties and unpredictability of ageing processes  
Speaker: IRSN (French Institute for Radiological Protection and Nuclear Safety)
- 9:40-9:55            3. Related issues: ageing of human know-how, design and technology  
Speaker: Joint Research Center
- 9:55-10:20           4. Q&A
- Session II:**            **Measuring the risk (moderator: Jo Leinen MEP)**
- 10:20-10:50        1. Control methods across Europe and recent developments  
Speaker: operators  
- Foratom tbc  
- Slovenia tbc  
- Hungary tbc
- 10:50-11:20        2. The role of regulatory agencies in ageing monitoring.  
Speakers: regulators  
-Belgium: FANC (Belgian Federal Agency for Nuclear Control)  
tbc  
-Sweden: Lennart Carlsson, Swedish radiation safety agency (tbc)  
- France: Philippe Jamet, ASN (French Nuclear Safety Agency)
- 11:20-11:45        3. Q&A
- 11:45-12:25**        **Lunch break**



<b>Session III:</b>	<b>Policy responses to NPP ageing (moderator: Corinne Lepage MEP)</b>
12:25-12:40	1. Factors influencing policy options: lessons learned from previous retirement cases Speaker: Stephen Thomas (University of Greenwich)
12:40-12:55	2. Public participation in PLEX discussions Speaker: Andriy Martynyuk - Eco Club Rivne
12:55-13:10	3. Legal ageing criteria for shutdown Speaker: Yves Marignac (Wise Paris) tbc
13:10-13:25	4. Which role for the EU? Speaker: European Commission DG ENER
13:25-13:50	5.Q&A
<b>13:50-14:00</b>	<b>Summary of the discussions and conclusion (NTW, Jeremy Wates, tbc)</b>

**Please confirm your attendance to this workshop by March, 12th to [eva.deront@nuclear-transparency-watch.eu](mailto:eva.deront@nuclear-transparency-watch.eu) and send your First name, Last name, Date of birth, Nationality, Type of ID card and Number of the ID card.**

NB: French-English interpretation will be provided.