



Office for
Nuclear Regulation

NUCLEAR REGULATION – A UK PERSPECTIVE

8th European MELCOR Users Group Meeting – EMUG 2016 – April 2016

Mark Foy
Deputy Chief Inspector
Director ONR's Operational Facilities Programme



Content

- ONR – Evolution and Strategy
- Priorities and Operational Programmes
- Regulatory Focus
- New Build Portfolio
- Reactor Fleet and New Build circa 2020
- GDA – Why ?
- Working Together
- Research



Evolution of ONR



ONR 5 Year Strategy – 2015 to 2020

Mission

To provide efficient and effective regulation of the nuclear industry, holding it to account on behalf of the public

Strategic Themes

- Influencing improvements in nuclear safety and security
- Achievement of our vision through our people
- Inspiring a climate of stakeholder respect, trust and confidence

Influence improvements in nuclear safety and security



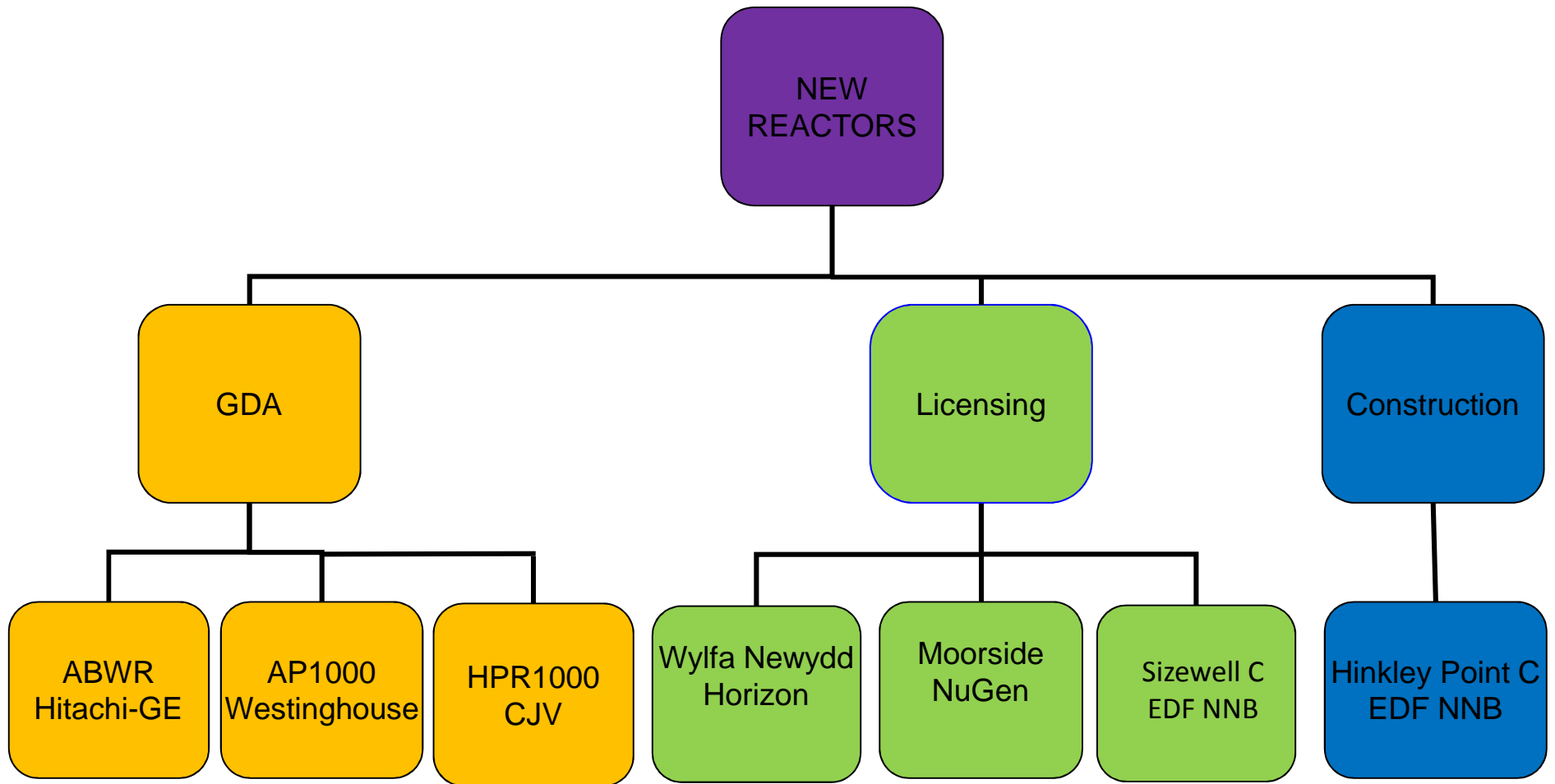
ONR Operational Programmes



Current Regulatory Focus



Current New Build Work



An aerial photograph of a nuclear reactor facility, likely a pressurized water reactor (PWR), with a 3D architectural model overlaid. The model shows the reactor's containment domes, buildings, and piping. The facility is situated in a rural area with green and brown fields, and a body of water is visible to the right.

Reactor Fleet and New Build circa 2020

15 Operational Reactors – Existing AGRs and Single PWR
9 New reactors under construction



“Identifying and resolving key issues and design changes long before build – reducing construction cost and time risks”

Hinkley Point C

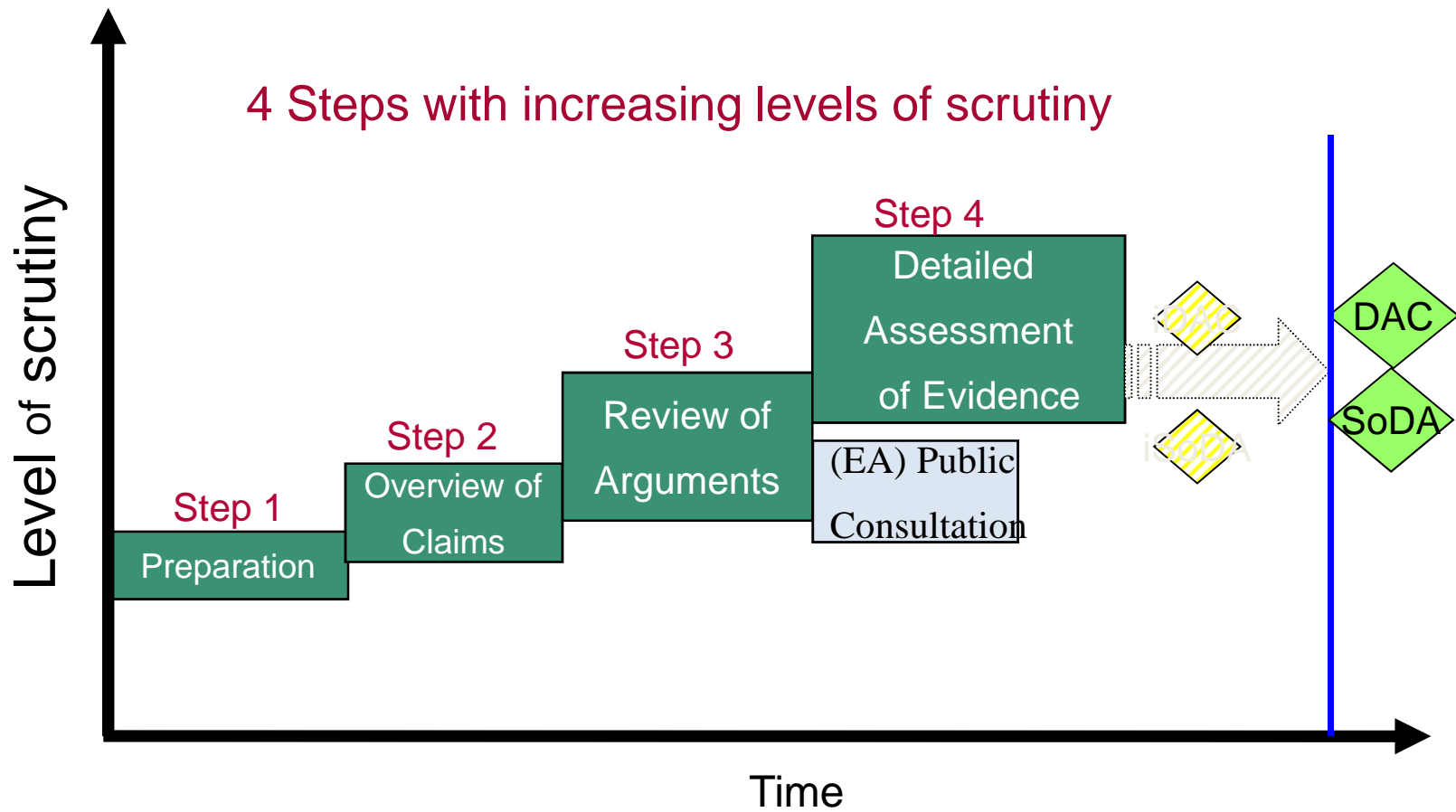


Flamanville



Olkiluoto

Generic Design Assessment Process





Working Together

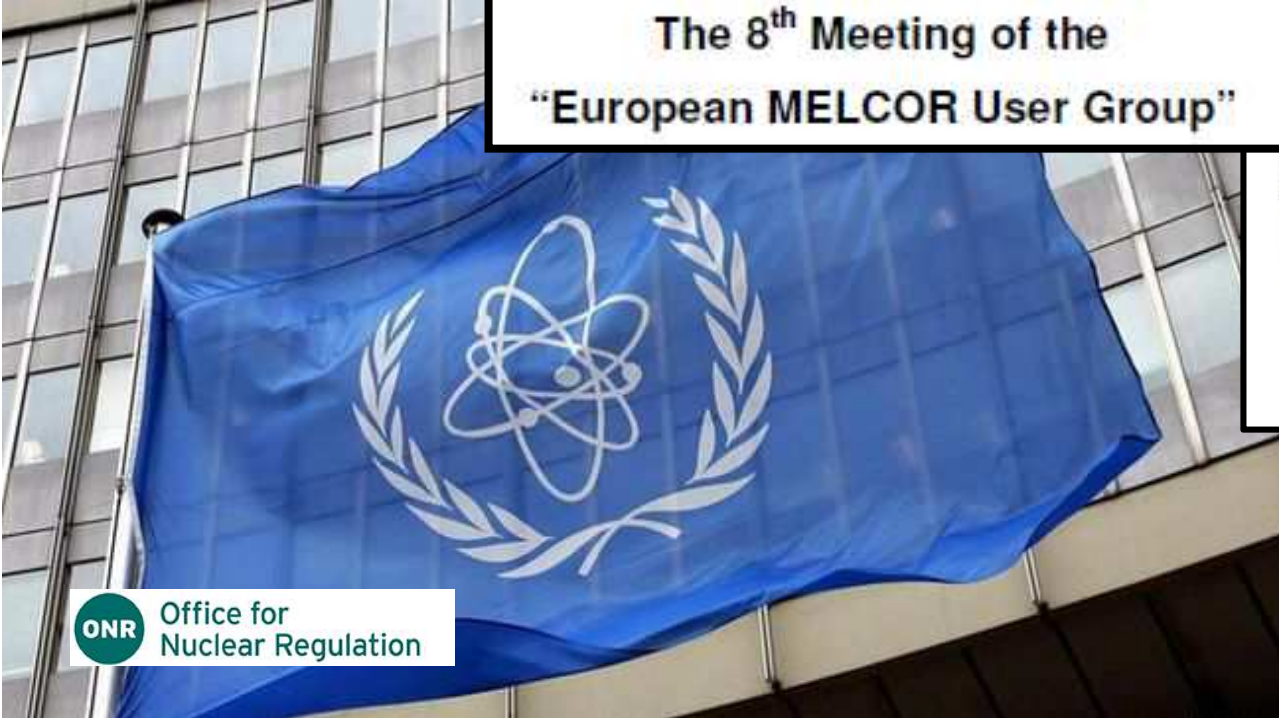


ONR Working Together

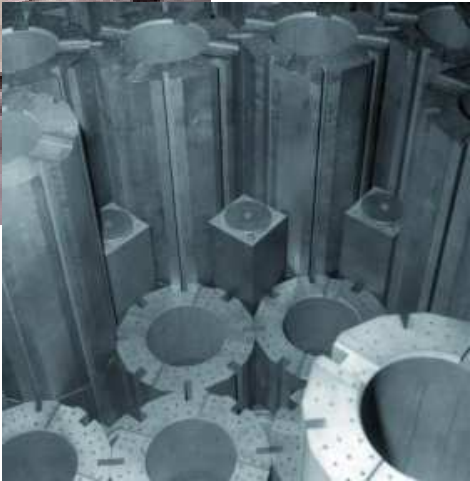
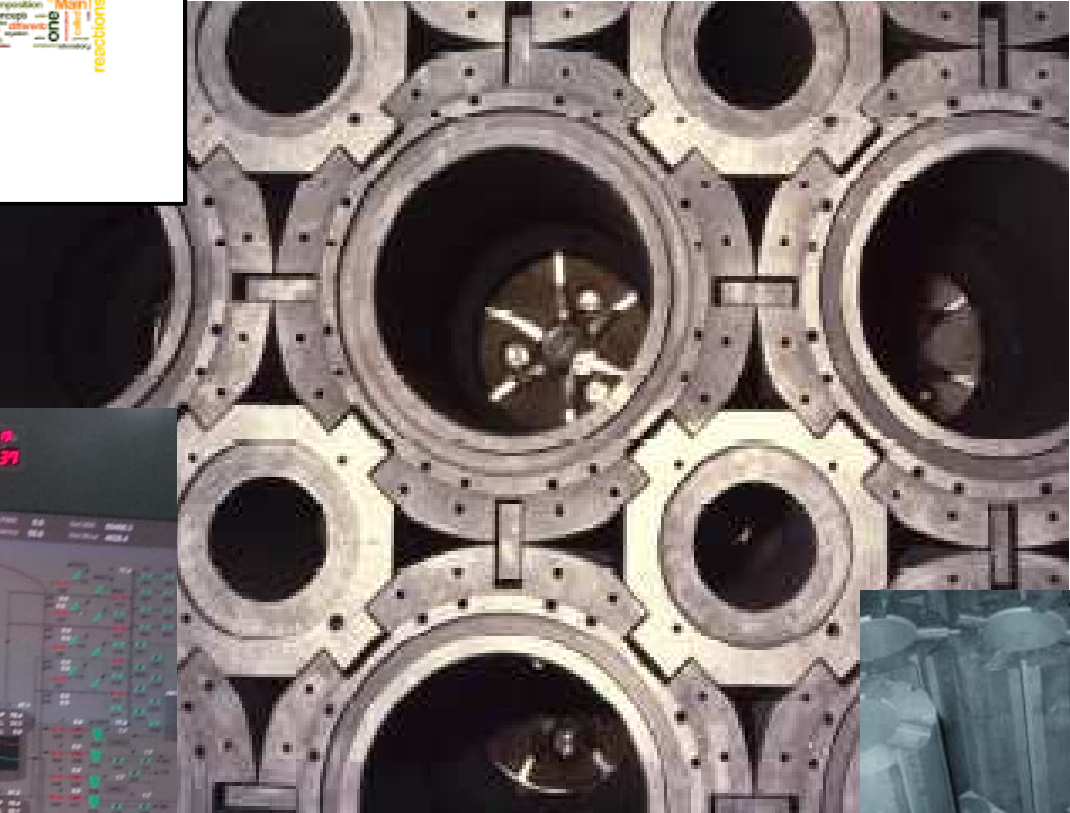
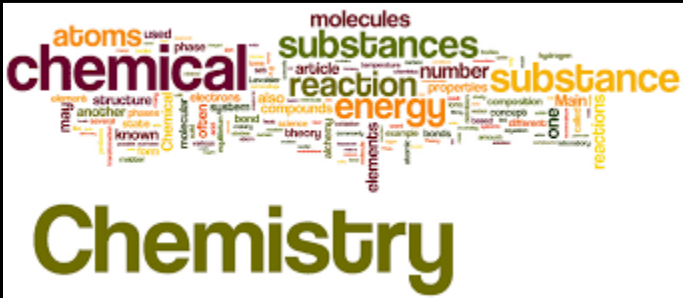


EMUG

The 8th Meeting of the
"European MELCOR User Group"

The central graphic contains a square logo with a golden figure riding a horse against a dark background. Below the logo, the acronym "EMUG" is written in a large, bold, black, sans-serif font. Underneath that, the text "The 8th Meeting of the 'European MELCOR User Group'" is written in a smaller, black, sans-serif font.

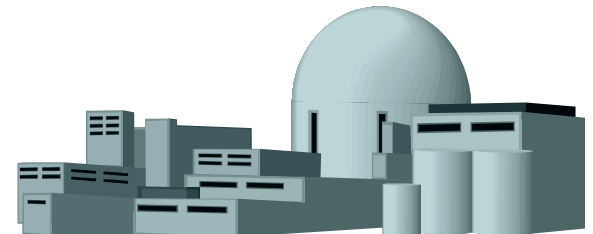
Regulatory Research



Office for Nuclear Regulation

Summary

- ONR established as a single regulatory body, well positioned to regulate existing industry and enable an ambitious UK new build programme
- Clear strategy established with associated priorities
- Clear phases to new build, but each requires significant work/analysis by requesting parties, licensees and regulator
- Working with fellow regulators and stakeholders is important and necessary to ensure relevant good practice, drive continuous improvement, reduce unnecessary burden and gain public confidence
- Essential we identify and benefit from opportunities to work together to ensure we are well placed to overcome these challenges
- ONR sees membership and the cooperation via CSARP and EMUG as essential part of its work and understanding of severe accidents



To Conclude

- If there is to be increased public acceptance and support for the industry it needs to be able to demonstrate that it can safely and securely, control and manage its hazards and risks
- Understanding severe accident progression, the effect of operator actions and impact on nuclear and balance of plant is aspect of this essential
- This brings the work of the EMUG into focus and I believe that it underlines the continued importance of the user group and the need for cooperation, particularly given the global new build agenda
- Your work over the next two days is important, I hope that this workshop provides an environment for open exchange and learning.
- You have my best wishes for a successful meeting and I wish you well in your endeavours. Thank you.

