

Building for tomorrow

Proposals for the safety regulatory processes of the UK nuclear industry

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**Lloyd's
Register**

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Lloyd's Register – who we are



- Leading provider of independent assurance and verification services to major hazard industries, including nuclear.
- 7000 employees, 240 offices in 190 countries
- Nearly 250 years experience; independent and non-profit distributing
- Associated with over 85 nuclear projects worldwide e.g.
 - Independent Third Party Inspection Authority for Sizewell 'B'
 - Assessment and certification of management systems across nuclear industry.

Recent major projects

Independent certification of Taiwan's new high speed railway

Classification of four of the largest Liquefied Natural Gas ships (each capable of transporting 210,100 m³ of LNG).

Certification of a major 14,500 tonne offshore production platform under construction in Asia

Nuclear Safety Assurance in the UK

The challenge:

Escalating demands on the nuclear regulatory system

Public needs assurance that safety will not be compromised by scarcity of resources, or pressure of project timescales

We have examined options by reviewing practice in a number of other major hazard industries



“I am keen to ensure that the UK has the most effective regulatory regime in the world. I believe it could be a critical differentiator for the UK in securing access to international investment in new nuclear facilities” (John Hutton, 10th

January 2008)

Comparison with other safety assurance regimes – our findings

Other regimes:

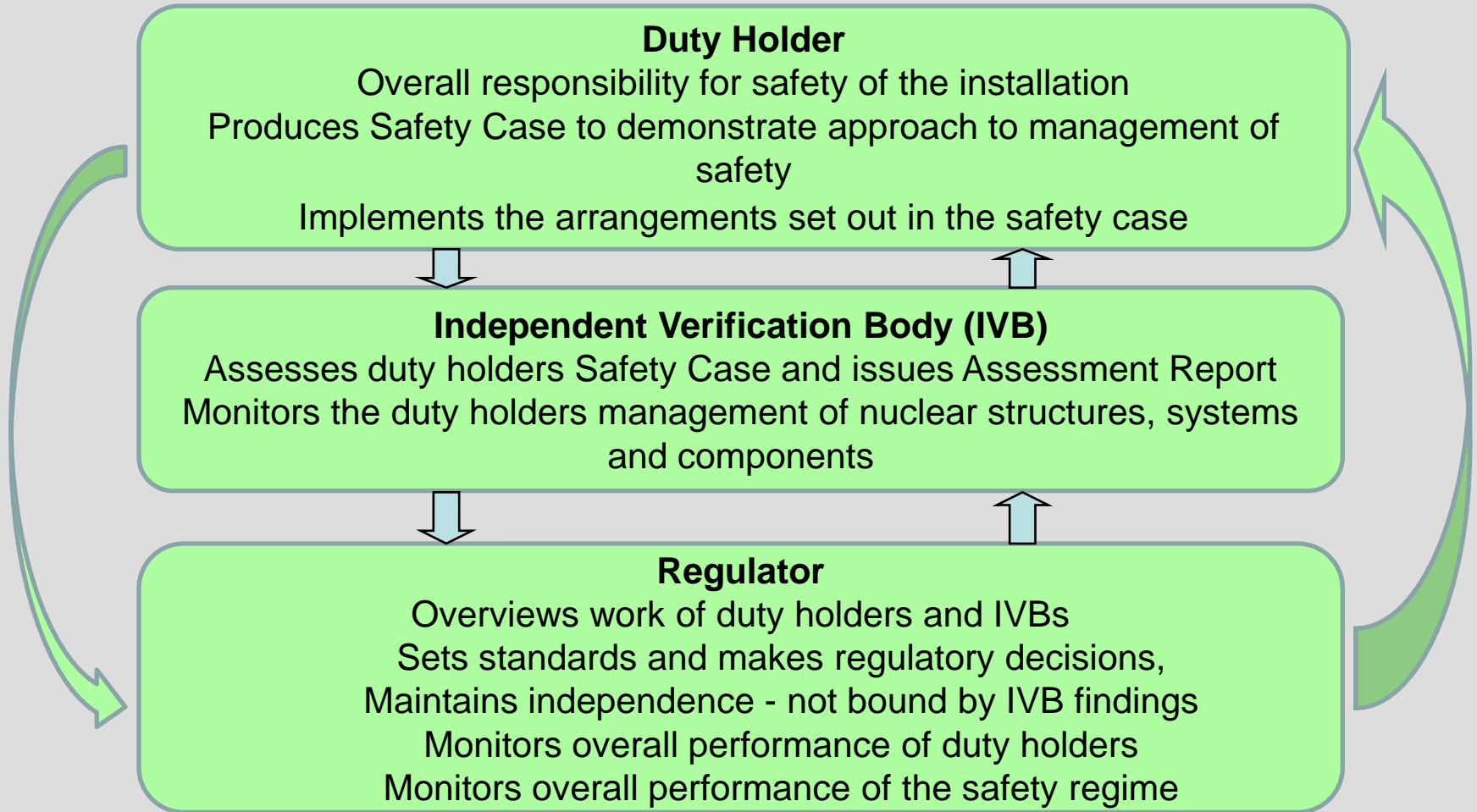
- concentrate less of detailed assessment work in hands of regulator
- use support organisations such as Independent Verification Bodies (IVBs) to do detailed technical assessment work and some inspection of plant and equipment
- have better provision for cross-acceptance of designs approved by other countries' regulators



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Independent verification regime



Benefits of an Independent Verification regime

- ✓ Efficient delivery of safety assurance
- ✓ Increased pool of assurance personnel
- ✓ Builds on safety assurance experience from other MHIs
- ✓ NII free to focus on regulatory oversight and decision making
- ✓ Reinforces that duty holder has over-riding responsibility for safety
- ✓ Third party approval could help enhance public confidence

IVBs should be legally separate from duty holders and independently accredited by BERR and UKAS

Independent Accident Investigation Body

Lloyd's Register research shows trend towards establishing Independent Accident Investigation Bodies



Benefits

- Enhance public confidence in investigation process
- Bring nuclear accident investigation in line with best practice

Next steps

Regulator can amend existing licensing conditions to guarantee independent verification, but needs impetus from Government

Independent Accident Investigation Body could be established through Energy Bill

We believe the escalating demands on the nuclear regulatory system make it essential to update the existing regime

We'd welcome your thoughts and feedback



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Lloyd's Register

LIFE MATTERS

The Lloyd's Register Group works to enhance safety and approve assets and systems at sea, on land and in the air – because life matters.