# Impact of SMRs on the Regulatory Framework

ONR Presentation Nov 19

# The Office for Nuclear Regulation (ONR)



- ONR is an independent statutory body

- Formed in April 2014 on the commencement of the Energy Act 2013

- Regulate civil nuclear activity plus some *aspects* of defence activity across the UK

- Close liaison with other regulators in the sector (particularly the Environment Agencies)

Nuclear safety

Nuclear site health and safety (conventional health and safety)

Nuclear security

Nuclear safeguards

Transport of radioactive materials

Office for Nuclear Regulation

2

# I Will Cover

- What regulation means to UK and ONR.
- Where to find them.
- How SMRs fit into our current work.
- New Generic Design Assessment (GDA).
- Security Assessment Principles.
- Outcome-based regulation.
- SMR challenges.

# Law and Regulators

**Resources**

- Guidance
  - Internal operational instructions and guidance
  - + Safety Assessment Principles (SAPs)
  - Security Assessment Principles (SyAPs)
- + Reports
- A-Z
- Useful links

# Security Assessment Principles (SyAPs)

ONR uses the Security Assessment Principles (SyAPs), together with supporting Technical Assessment Guides (TAGs), to guide regulatory judgements and recommendations when undertaking assessments of dutyholders' security submissions, such as site security plans and transport security statements. Underpinning the requirement for these submissions, and ONR's role in their approval, are the legal duties placed on organisations subject to the Nuclear Industries Security Regulations (NISR) 2003.
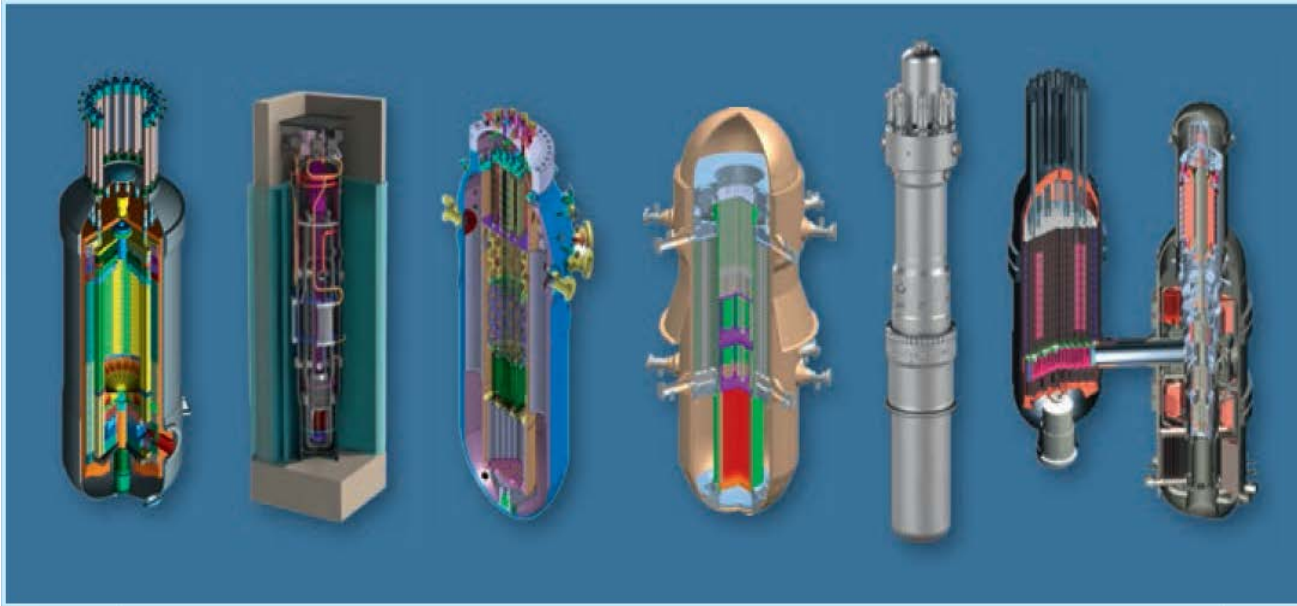
The SyAPs provide the essential foundation for the introduction of outcome focussed regulation for all constituent security disciplines: physical, personnel, transport, and cyber security and information assurance. This regulatory philosophy is aligned with our mature non-prescriptive nuclear safety regime and provides dutyholders with a coherent regulatory approach across the UK civil nuclear industry.

The Security Assessment Principles are supported by a series of Annexes which contain sensitive nuclear information. As the document notes, these annexes have been redacted for publication. Those civil nuclear industry dutyholders who need the annexes should contact cns.support@onr.gov.uk.
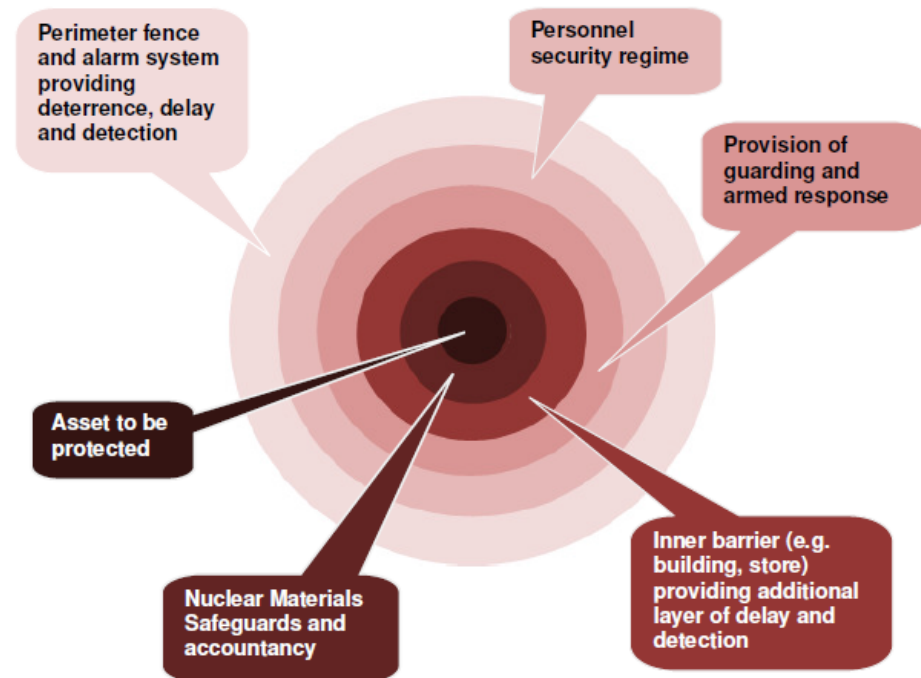
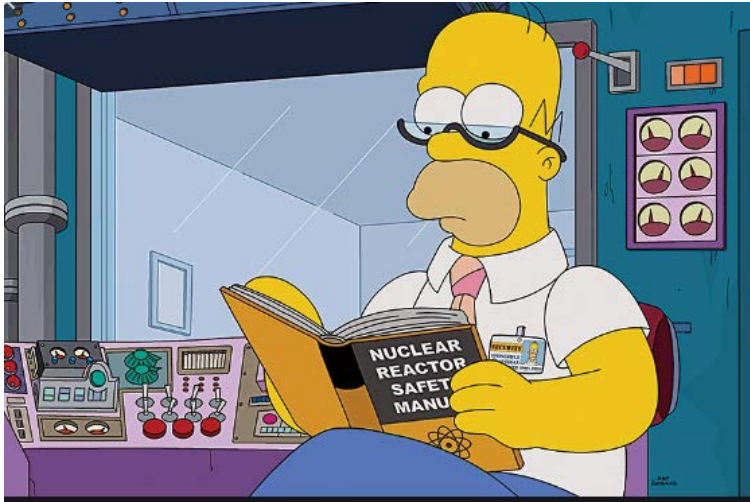**Security Assessment Principles for the Civil Nuclear Industry 2017 Edition, Version 0**

# Advanced Nuclear Technology

# Generic Design Assessment

# SyAPs – Fundamental Security Principles

| Strategic Enablers - Objectives focused on creation of the right conditions to support high reliability, disciplined operations. | | Disciplined Operations - Objectives focused on the implementation and maintenance of nuclear security. | |
|---|---|---|---|
| **FSyP I** | Leadership and Management for Security | **FSyP VI** | Physical Protection Systems |
| **FSyP II** | Organisational Culture | **FSyP VII** | Cyber Security & Information Assurance |
| **FSyP III** | Competence Management | **FSyP VIII** | Workforce Trustworthiness |
| **FSyP IV** | Reliability, Resilience and Sustainability | **FSyP IX** | Policing & Guarding |
| **FSyP V** | Nuclear Supply Chain Management | **FSyP X** | Emergency Preparedness and Response Arrangements |

- **FSyPs are not SNI and will be made available to the public.**
- **SyDPs are not SNI and will be made available to the public.**

- **FSyPs are not SNI and will be made available to the public.**
- **Limited aspects of SyDPs are SNI. A redacted version will be made available to the public.**

ONR Office for Nuclear Regulation

Perimeter fence and alarm system providing deterrence, delay and detection

Personnel security regime

Provision of guarding and armed response

Asset to be protected

Nuclear Materials Safeguards and accountancy

Inner barrier (e.g. building, store) providing additional layer of delay and detection

ONR Office for Nuclear Regulation

Continuing Professional Development

# Questions?