

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



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





ONR GUIDE					
GUIDANCE ON THE SECURITY ASSESSMENT OF GENERIC NEW NUCLEAR REACTOR DESIGNS					
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STATUTORY INSTRUMENTS

2003 No. 403

ATOMIC ENERGY AND RADIOACTIVE SUBSTANCES

The Nuclear Industries Security Regulations 2003

Made - - - - 26th February 2003

Laid before Parliament 28th February 2003

Coming into force

Part 3 and Parts 1 and 5 so far

as they apply for the purposes of Part 3 22nd September 2003 Remainder 22nd March 2003

ARRANGEMENT OF REGULATIONS

PART 1

INTRODUCTORY

- 1. Citation, commencement, revocation and extent
- 2. Interpretation: general
- Meaning of "nuclear material", "Category I/II nuclear material" and "Category III nuclear material"

PART 2

SECURITY OF NUCLEAR PREMISES

- 4. Requirement for approved security plan for nuclear premises
- 5. Submission and approval of first security plans
- 6. Replacement, amendment and revocation of approved security plans
- 7. Maintenance of security
- 8. Temporary security plans during building works etc.
- Requirement for approval of relevant personnel
- 10. Reports by responsible persons
- 11. Directions to responsible persons
- 12. Transitional provisions: security obligations under old legislation

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Security Assessment Principles (SyAPs)

ONR uses the Security Assessment Principles (SyAPs), together with supporting <u>Technical Assessment Guides (TAGs)</u>, 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.



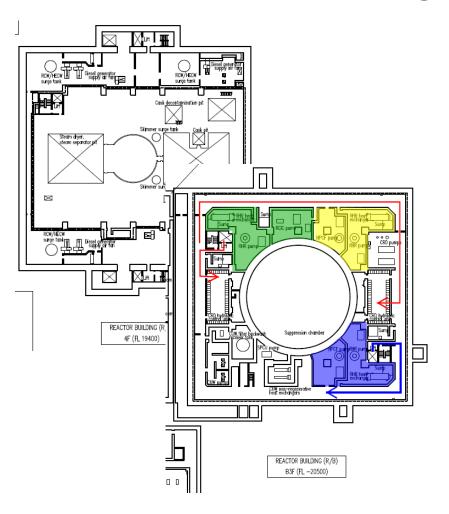
Security Assessment Principles for the Civil Nuclear Industry
2017 Edition, Version 0 4

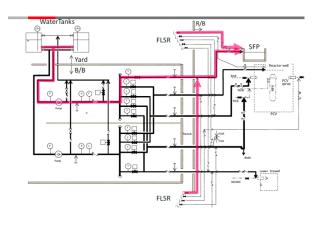


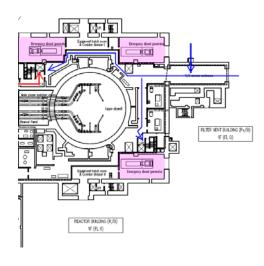
Advanced Nuclear Technology



Generic Design Assessment







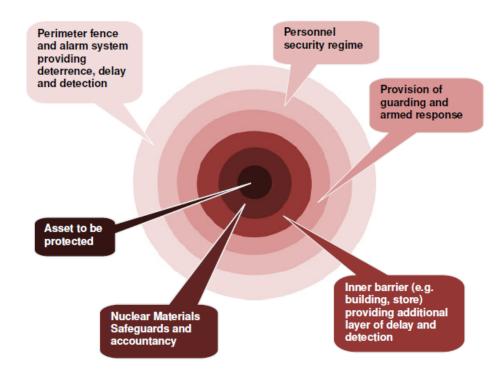


SyAPs – Fundamental Security Principles

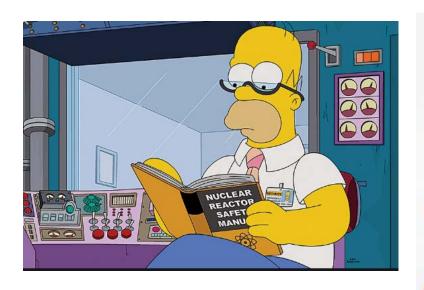
Strategic Enablers - Objectives focused on creation of the right conditions to support high reliability, disciplined operations.		Disciplined Operations - Objectives focused on the implementation and maintenance of nuclear security.	
FSyP I	Leadership and Management for Security	FSyP VI	Physical Protection 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. 	





















Questions?

