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The Licensing of New Sites in the UK

Craig Reiersen
HSE/ND – Licensing, Leadership
& Managing for Safety

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Scope of Presentation

- Overview of licensing and NII expectations
 - The nuclear site licence
 - What is needed to support application for a nuclear site licence?
 - When may a licence be granted?

See HSE/NII Guide: The Licensing of Nuclear Installations

<http://www.hse.gov.uk/nuclear/notesforapplicants.pdf>

& Applying for a nuclear site licence - A step-by-step guide

<http://www.hse.gov.uk/newreactors/ngn02.pdf>

Nuclear Site Licence

- Granted only to a Corporate body
 - not transferable
- Licensee must be a defined entity
 - even if it sits within a larger organisation
- Licensee has its own Board
 - regardless of parent organisations
 - explicit responsibility for nuclear safety



Nuclear Site Licence

- Granted by HSE for indefinite period ie from first licensing
 - Covers
 - construction
 - commissioning
 - operation
 - decommissioning
 - site clearance
- To de-licence need to demonstrate 'no danger'

Licence Conditions

- HSE may attach conditions at any time in interests of:
 - safety
 - handling, treatment, disposal of nuclear materials



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Licence Conditions include.....

- Training, Qualifications and Suitable Experience
- Incident Reporting
- Nuclear Safety Committee
- Maintenance
- Control of Modifications
- Operating Rules
- Construction & Commissioning
- Emergency Arrangements
- Shutdown
- Decommissioning
- Organisational change



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Example of Nuclear site licence

Site Licence No: xxx

NUCLEAR INSTALLATIONS ACT 1965 (AS AMENDED)

NUCLEAR SITE LICENCE

British Energy Generation Limited

Hinkley Point C

1. The Health and Safety Executive, in pursuance of sections 1(1), 4(1) and 4(2) of the Nuclear Installations Act 1965 (as amended), hereby licenses British Energy Generation Limited a company registered in England and Wales under number 03076445 (hereinafter referred to as "the licensee") whose Registered Office is at Barnett Way, Barnwood, Gloucester, GL4 3RS, to use the site described in Part 1 of Schedule 1 to this licence (hereinafter referred to as "the site") for the purpose of installing and operating the nuclear installations described in Part 2 of that Schedule.
2. This licence is granted subject to the conditions contained in Schedule 2 hereto.
3. This licence shall come into force on 1 April 20xx.

Dated:

For and on behalf of the Health
and Safety Executive

Signed:

M W WEIGHTMAN

HM Chief Inspector of Nuclear
Installations

A person authorised to sign in that behalf

SCHEDULE 1

Part 1: The Site

Land situated near Stogursey in the District of West Somerset in the County of Somerset owned and occupied by the licensee and shown outlined in red on the licensee's drawing referenced dated and entitled "Hinkley Point C Nuclear Site Licence Boundary", which is annexed to this licence.

Part 2: The Nuclear Installations

One thermal neutron reactor, together with any machinery, equipment, appliance or storage facility required for the operation thereof, being a reactor fuelled with uranium dioxide enriched with the isotope U235, moderated and cooled by water, and known as the Hinkley Point C Power Station.



Obtaining a Nuclear Site Licence (1/11)

National Nuclear Policy Statement

- demonstration of conformity with UK Government siting policies

Obtaining a Nuclear Site Licence (2/11)

Site identification

- Nuclear site licences are granted on a site-specific basis
- Boundary of site defined by reference to a **site plan** incorporated into the licence
- So site plan needed
 - modifications may take place until point at which licence granted
 - extensions would require relicensing
 - excluding areas by licence Variation

Obtaining a Nuclear Site Licence (3/11)

Description of installation

- Setting out description of the installation and activities to be licensed

Obtaining a Nuclear Site Licence (4/11)

Statement of justification

- a statement confirming that the operation of the power station is ‘Justified’ as required by the “Justification of Practices Involving Ionising Radiation Regulations 2004”



Obtaining a Nuclear Site Licence (5/11)

Security of Tenure

HSE / NII policy: applicant needs security of tenure and control of the site commensurate with duties under NIA65 and the licence.

If the applicant is not the site owner, evidence of security of tenure is required via a lease or other legally binding documentation

Licensee will need arrangements under LC3 to control sub-leasing and 'parting with possession'

Obtaining a Nuclear Site Licence (6/11)

Safety case and design information

- site specific PCSR
 - based on GDA Generic PCSR + details and justification of any site or operator specific changes
- GDA Exclusion completion plan

Obtaining a Nuclear Site Licence (7/11)

Organisational capability

- Safety management prospectus, covering factors such as
 - nuclear baseline
 - intelligent customer capability
 - design authority
 - plans to develop organisational capability
- Identification of security responsibilities and SNI handling methods



Obtaining a Nuclear Site Licence (8/11)

Licence Condition Compliance Arrangements

- HSE attach conditions to the licence
- Standard set of 36 Conditions
 - Mostly non-prescriptive
 - training, competence, control of change
 - Board is subject to licence conditions
- Primarily require licensee to “make and implement **adequate** arrangements”
 - develop for the construction phase of the site.
 - proportionate ... !

Obtaining a Nuclear Site Licence (9/11)

Conceptual Security Plan

- significant progress to have been made in developing the conceptual security plan prior to licensing

Obtaining a Nuclear Site Licence (10/11)

Decommissioning Arrangements

- outline decommissioning plan which shows that the design of the plant will facilitate its safe decommissioning and dismantling (see *The decommissioning of the UK nuclear industries facilities*)

Obtaining a Nuclear Site Licence (11/11)

Nuclear Safety Committee

- terms of reference for the licensee's Nuclear Safety Committee (see Licence Condition 13 (LC13))

WHEN will NII grant a Nuclear Site Licence ?

- Latest point of Licensing: prior to first structural concrete with nuclear safety implications
- Earlier licensing possible subject to expectations set out above being met.
 - indications of intent sought from prospective licensee
 - HSE will respond positively to requests for earlier licensing
- Grant of licence NOT green light for start of construction

Indicative Site Licensing Timeline

