

# Nuclear Site Licence Application Summary



## Nuclear Site Licence application

The law requires a number of permissions to be granted, including a Nuclear Site Licence, before a company can build and operate a nuclear power station.

Horizon Nuclear Power is proposing to build a new nuclear power station on Anglesey in North Wales.

Wylfa Newydd Power Station would generate 2.7 gigawatts of electricity, providing enough secure low carbon power for around five million homes from the mid-2020s for decades to come.

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## What is a Nuclear Site Licence?

**The Office for Nuclear Regulation (ONR) regulates safety and security at nuclear licensed sites across the UK, including the existing Magnox Wylfa Power Station on Anglesey which is currently being decommissioned.**

A Nuclear Site Licence is granted by the ONR for the installation and operation of a nuclear power station, once it has received an application and carried out a robust assessment of the applicant. It will only grant a Nuclear Site Licence once it is satisfied that the applicant has the capability and resources to take overall responsibility for activities that may affect the safety of the site.

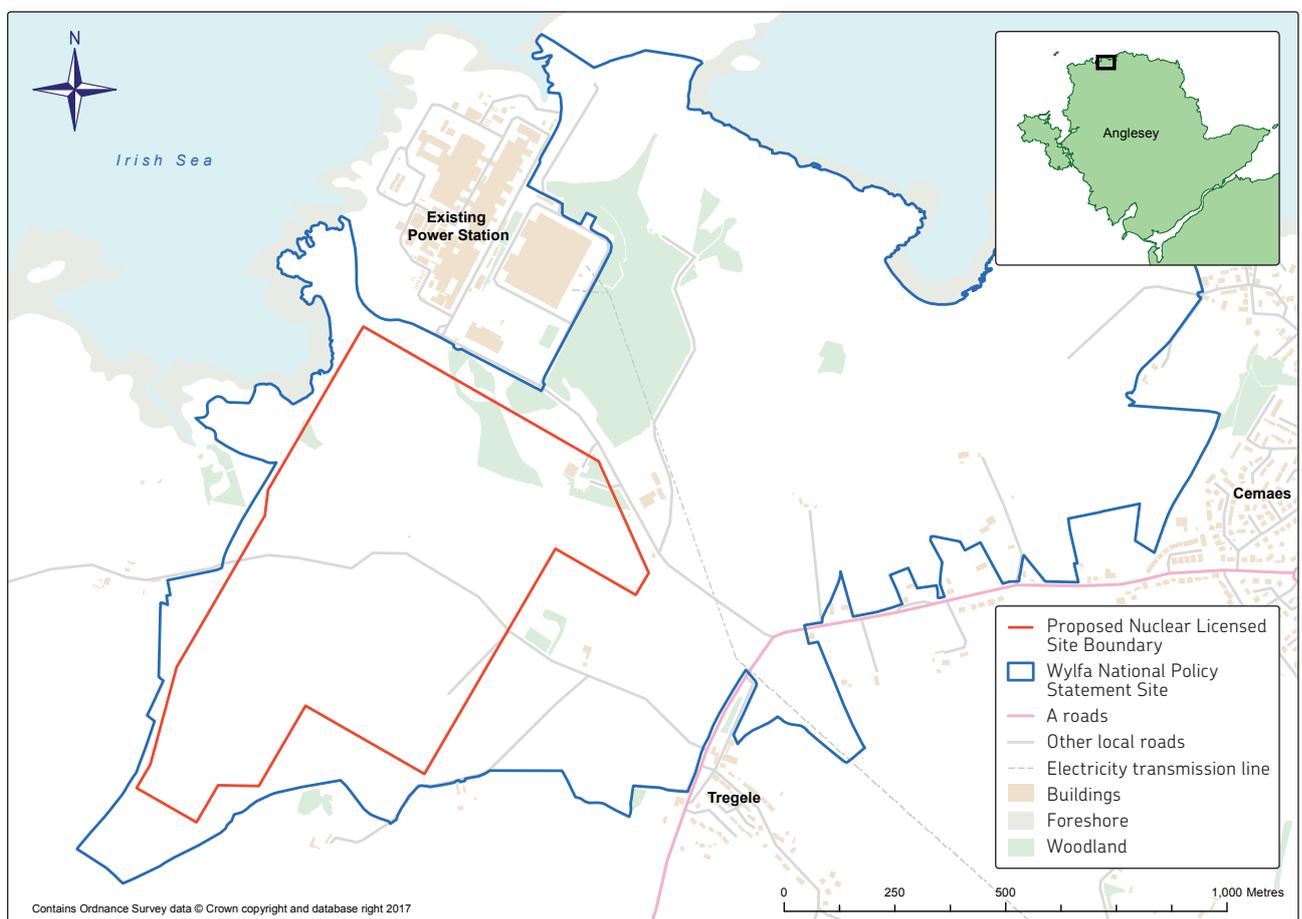
The ONR attaches licence conditions (currently a standard 36 licence conditions) to each Nuclear Site Licence.

These cover the whole lifecycle of the power station, from design through construction and commissioning, to operation and finally decommissioning. The conditions require the licence holder, also known as the Licensee, to produce and maintain suitable arrangements, such as processes and procedures, to ensure that work is carried out safely at all times.

The ONR has published a guidance document that further explains what a Nuclear Site Licence is and how it is used by the ONR to regulate licensees. It has also published a Licence Condition Handbook that provides more information about the current standard 36 licence conditions. Both of these documents, together with other information, are available on the ONR's website at [www.onr.org.uk](http://www.onr.org.uk).

## Horizon's application

Horizon has applied for a Nuclear Site Licence for its proposed Wylfa Newydd Power Station. This is to be situated to the west of Cemaes and southwest of the existing Magnox Wylfa Power Station on Anglesey. The proposed location of Wylfa Newydd Power Station is shown below.



## Site Licence Application package

The application consists of a comprehensive suite of documents known as the Site Licence Application (SLA) package. This package, available on Horizon's website, consists of the following 11 documents:

1

### Application Letter

A formal letter to the ONR's Chief Nuclear Inspector requesting a Nuclear Site Licence.

2

### Overview Document

Describes the purpose of the application, and outlines the contents of the SLA Package.

3.1

### Company Manual

Provides an overview of the company ownership, internal structure and how the company is managed.

3.2

### Management Prospectus

Explains why the Horizon organisation is suitable to hold a Nuclear Site Licence.

3.3

### Nuclear Baseline Report

Demonstrates that Horizon's staffing levels and competencies are suitable for the tasks being undertaken.

3.4

### Compliance Matrix

Summarises how Horizon complies with, or will comply with, the licence conditions.

3.5

### Safety Case Development Plan

Presents a high level plan for the development of the safety case required for the power station as it progresses through construction to commercial operation.

3.6

### Boundary Map

Defines the boundary of the nuclear licensed site which is the area of land the ONR will regulate.

3.7

### Nuclear Safety Committee Terms of Reference

States the objectives and structure of the independent committee which will advise the company on matters concerning nuclear safety.

3.8

### Glossary

Provides a definition of the technical terms used within the SLA.

4

### Summary Forward Work Plan

Describes how Horizon will develop its capability and management arrangements through the lifecycle of the power station.

Further information

Before submitting the application, Horizon carried out a stringent series of checks and reviews to ensure the information in the documents is accurate and provides the necessary information identified from the ONR's guidance documents and relevant legislation.

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## Assessing Horizon's Nuclear Site Licence application

The ONR will carry out its assessment of Horizon's application against the following themes:

- the capability of the company to manage its activities safely;
- suitability of the proposed site and its boundary to host the proposed power station;
- ownership of the site to ensure the company has overall control of the site;
- compliance with the licence conditions;

- its plans for the submission of key safety documents known as safety cases;
- plans for decommissioning, radioactive waste, and emergencies; and
- its plans for nuclear safeguards arrangements, which are used to ensure the company can account for all of its nuclear material on site.

The ONR's expectations for each of the themes listed above are set out in detailed guidance documents available on their website at [www.onr.org.uk](http://www.onr.org.uk).

## Other Applications

Whilst the ONR is assessing the Nuclear Site Licence application, Horizon will continue to progress its applications for other permissions, including:

- environmental permits from Natural Resources Wales (NRW), the regulator responsible for ensuring that people and the environment are protected; and

- a development consent order (DCO), a planning permission for large, nationally significant infrastructure projects such as new nuclear power stations.

## What happens next?

Horizon submitted its Nuclear Site Licence application to the ONR in early 2017 with a targeted grant date of late 2018.

Only once the ONR inspectors have completed their assessment and satisfied that Horizon meets the requirements of a licensee, they will make a recommendation to the Chief Nuclear Inspector of the ONR to grant a Nuclear Site Licence.

After a Nuclear Site Licence has been granted, the ONR will regulate Horizon's ability to maintain the safety of the site. The ONR will spend time visiting the site, carrying out inspections, reviewing safety documentation, and assessing Horizon's compliance with the licence conditions.

At certain points in time, Horizon will have to apply to the ONR to gain additional permissions under the Nuclear Site Licence to allow certain safety-related activities to progress.

These include, for example, the commencement of nuclear safety-related construction, and bringing nuclear fuel onto the site for the first time. Horizon will only be allowed to proceed when it can demonstrate that these activities can be undertaken safely and securely.

## Find out more

The SLA package includes an Overview Document that provides a summary of Horizon's Nuclear Site Licence application. If you would like to read this document or any of the SLA documents they are available via Horizon's website at [www.horizonnuclearpower.com](http://www.horizonnuclearpower.com).

For more information on nuclear regulation and Nuclear Site Licence applications, please visit the website of the Office for Nuclear Regulation at [www.onr.org.uk](http://www.onr.org.uk).