



Office for Nuclear Regulation (ONR) Quarterly Site Report for Sizewell B

Report for period 1 January – 31 March 2017

Foreword

This report is issued as part of ONR's commitment to make information about inspection and regulatory activities relating to the above site available to the public. Reports are distributed quarterly to members for the Sizewell sites stakeholder group and are available on the ONR website (<http://www.onr.org.uk/llc/>).

Site inspectors from ONR usually attend Sizewell sites stakeholder group meetings and will respond to any questions raised there. Any person wishing to inquire about matters covered by this report should contact ONR.

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1 INSPECTIONS

1.1 Dates of inspection

The ONR nominated site inspector made inspections on the following dates during the quarter:

17 – 19 January
28 February
1 – 2 March
20 – 23 March

ONR specialist inspectors carried out inspection visits on the following dates during the quarter:

20 - 24 February
28 February
1 – 2 March
20 – 22 March

The ONR superintending inspector made a visit on the following dates during the quarter:

22 – 23 March

The ONR security inspector visited the site on the following dates:

20 - 24 February
23 March

2 ROUTINE MATTERS

2.1 Inspections at Sizewell B

Inspections are undertaken as part of the process for monitoring compliance with:

- the conditions attached by ONR to the nuclear site licence granted under the Nuclear Installations Act 1965 (NIA65) (as amended);
- the Energy Act 2013
- the Health and Safety at Work Act 1974 (HSWA74); and
- regulations made under HSWA74, for example the Ionising Radiations Regulations 1999 (IRR99) and the Management of Health and Safety at Work Regulations 1999 (MHSWR99).
- the Regulatory Reform (Fire Safety) Order 2005
- the Nuclear Industries Security Regulations 2003

The inspections entail monitoring licensee's actions on the site in relation to incidents, operations, maintenance, projects, modifications, safety case changes and any other matters that may affect safety. The licensee is required to make and implement adequate arrangements under the majority of conditions attached to the licence in order to ensure legal compliance. Inspections seek to judge both the adequacy of these arrangements and their implementation.

In this period, the following routine licence condition compliance inspections were undertaken:

Licence Condition 26: Control and supervision of operations
Licence Condition 32: Accumulation of radioactive waste

Licence Condition 34: Leakage and escape of radioactive material and radioactive waste

In general, ONR judged the arrangements made and implemented by the site in response to safety requirements to be adequate in the areas inspected. However, where improvements were considered necessary, the licensee made satisfactory commitments to address the issues, and the nominated site inspector will monitor progress during future visits. Where necessary, ONR will take formal regulatory enforcement action to ensure that appropriate remedial measures are implemented to reasonably practicable timescales.

System Based Inspections

In addition to ONR's programme of site licence compliance inspections, we also inspect operating reactors based on safety related systems. Each reactor has a safety case, which identifies the important aspects of operation and management required for maintaining safety.

For Sizewell B, the key systems important to nuclear safety will be inspected against the requirements of the safety case. We plan to inspect all the safety significant systems over a five-year period. ONR considers that this will provide additional assurance that operations on the site are safe. Each of these inspections considers the relevant licence conditions below:

Licence condition 10: Training

Licence condition 23: Operating rules

Licence condition 24: Operating instructions

Licence condition 27: Safety mechanisms

Licence condition 28: Examination, inspection, maintenance and testing

Licence condition 34: Leakage and escape of radioactive material and radioactive waste

During the reporting period, the following systems were inspected:

- Reactor Coolant System.
- Emergency Boration System.

The primary focus of this system based inspection was on the chemistry and structural integrity aspects of the emergency boration system and components of the reactor coolant system. The intervention was supported by ONR structural engineering and chemistry specialist inspectors. ONR judged that overall the systems and structures met the requirements of the safety case and are being adequately managed and maintained.

Dry Fuel Store (DFS) Project

EDF Energy Nuclear Generation Ltd is in the final stages of completing the DFS facility on the Sizewell B licensed site. During this period the ONR project inspector visited the site to review the licensee's progress of the active commissioning phase of the facility. At the time of the visit operations associated with the transfer, receipt and storage of the first cask of spent fuel were underway. The project inspector considered that operations were being satisfactorily controlled through the licensee's governance and oversight arrangements. This included control of radiological exposures and equipment performance. The active commissioning phase is considered to have been successfully demonstrated following the transfer of seven storage casks to the new facility.

Further details of ONR's intervention records can be found at <http://www.onr.org.uk/intervention-records>.

3 NON-ROUTINE MATTERS

Licensees are required to have arrangements to respond to non-routine matters and events. ONR inspectors judge the adequacy of the licensee's response, including actions taken to implement any necessary improvements.

From the reporting sampled during this period, the ONR inspector is satisfied that incidents reported on the site are being adequately recorded, investigated and reported by the licensee. No other matters of concern have been raised that require further regulatory action at this time.

4 REGULATORY ACTIVITY

ONR may issue formal documents to ensure compliance with regulatory requirements. Under nuclear site licence conditions, ONR issues regulatory documents, which either permit an activity or require some form of action to be taken; these are usually collectively termed 'Licence Instruments' (LIs), but can take other forms. In addition, inspectors may issue Enforcement Notices to secure improvements to safety.

Table 1
Licence Instruments and Enforcement Notices Issued by ONR during this period

Date	Type	Ref No	Description

Reports detailing regulatory decisions can be found on the ONR website at www.onr.org.uk/pars/.

5 NEWS FROM ONR

Regulation Matters magazine

On 1 November 2016, ONR held its Industry Conference in London, which brought together senior leaders from across the nuclear sector. We were pleased to welcome Baroness Neville-Rolfe DBE CMG, Minister of State at the Department for Business, Energy and Industrial Strategy (BEIS) to this year's conference who delivered the [keynote speech](#). A special edition of [Regulation Matters](#) has been published following the conference, which provides a summary of how the day unfolded. As part of our commitment to engage regularly with all our stakeholder groups, we were pleased to welcome 17 representatives from a number of organisations to our ONR / NGO forum on 30 November in London. The event provided an opportunity for NGO representatives to meet with a number of senior ONR leaders, including our Chief Executive and Chief Nuclear Inspector, to discuss a number of priority issues.

New reactors update:

- ONR received a request from Government to begin the Generic Design Assessment process for the UK HPR1000 in January. The reactor is now in Step 1 of the GDA process.
- On 30 March, ONR issued Design Acceptance Confirmation for the AP1000® nuclear reactor, designed by Westinghouse. The regulators required 51 GDA issues to be resolved before confirming suitability of the design.
- ONR granted its first consent for the start of construction at Hinkley Point C licensed site. The consent covers the placement of the structural concrete for the first nuclear safety-related structure at the site.
- On 31 March, Horizon Nuclear Power submitted its application for a nuclear site licence to build and operate two UK Advanced Boiling Water Reactors at Wylfa Newydd on Anglesey.

Quarterly statement of civil incidents

ONR published its quarterly statement of civil incidents reporting on the period October-December 2016. There was one incident which met ministerial reportable criteria at Dounreay involving contamination of workers' clothing. There was no detectable intake of radioactive material by any of the people involved in the incident.

Insight into ONR's work as an independent regulator of the nuclear industry can be found in ONR's Regulation Matters. The online publication (<http://www.onr.org.uk/regulation-matters.htm>) reports on the key themes and developments in each of ONR's regulatory programmes and provides an update about the ongoing changes at ONR. <http://www.onr.org.uk/index.htm>. For the latest news and updates from ONR visit the website and sign up for our ebulletin (<http://www.onr.org.uk/ebulletin/index.htm>).

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