



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

Report for period 1 October – 31 December 2016

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:

13, 18 – 20 October
8 – 10 November
7 – 8 December

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

18 – 20 October
8 – 9 November

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

1 – 3 November

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 11: Emergency arrangements
Licence Condition 25: Operational records

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:

- Main electrical power systems.

The primary focus of this system based inspection was on the 11KV main power system and associated main generator system and station transformer system. The intervention was supported by an ONR electrical engineering specialist inspector. 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 a Dry Fuel Store facility on the Sizewell B licensed site. As part of ONR's regulatory decision-making process to issue its formal consent to commence active commissioning of the facility, the following licence condition compliance inspections were undertaken during October:

Licence Condition 10: Training
Licence Condition 12: Suitably qualified and experienced persons
Licence Condition 21: Commissioning
Licence Condition 24: Operating instructions
Licence Condition 26: Control and supervision of operations

The inspection findings were generally positive and supported the regulatory decision-making process. However, the intervention identified a number of areas where further activities and documentation needed to be completed before moving into active commissioning of the facility. These activities and documentation were subsequently completed to the satisfaction of ONR leading to the issue of consent to commence active commissioning in December.

On Site Emergency Arrangements

During this visit the nominated site inspector observed a shift exercise undertaken in support of the site's emergency arrangements. This exercise scenario was intended to drive a site response in the direction of deployment of the new back-up emergency equipment from the off-site Emergency Response Centre (ERC). This was regarded by ONR as being a positive step towards the full integration of these emergency arrangements, which will improve the station's resilience to extreme events.

Counter Terrorism Exercise

During this period a team of ONR security inspectors observed a counter terrorism demonstration exercise (CTX) of the Sizewell B arrangements for dealing with a security incident on the site under the requirements of the Nuclear Industries Security Regulations 2003 (as amended) and against the approved nuclear site security plan.

The CTX scenario was judged to be credible, challenging and well planned. It was considered that the exercise was an adequate demonstration of the arrangements. The exercise generated a number of learning points; in addition the ONR observers also noted several good practices. The exercise was also well supported by external agencies. Areas for further improvement will be monitored by the ONR security inspector for progress during future inspections.

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
21 Dec 2016	Consent	LI 551	Consent to the operation of active commissioning of the Sizewell B dry fuel store

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.

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>).

CONTACTS

Office for Nuclear Regulation
Redgrave Court
Merton Road
Bootle
Merseyside
L20 7HS

website: www.onr.org.uk
email: ONREnquiries@onr.gsi.gov.uk

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