



Office for Nuclear Regulation (ONR) Site Report for Sizewell B Power Station

Report for period 1 July 2018 – 30 September 2018

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 to members of the Sizewell SSG and are also available on the ONR website (<http://www.onr.org.uk/llc/>).

Site inspectors from ONR usually attend Sizewell SSG meetings where these reports are presented and will respond to any questions raised there. Any person wishing to enquire about matters covered by this report should contact ONR.

TABLE OF CONTENTS

1	INSPECTIONS	3
2	ROUTINE MATTERS.....	3
3	NON-ROUTINE MATTERS.....	4
4	REGULATORY ACTIVITY	4
5	NEWS FROM ONR.....	5
6	CONTACTS.....	6

1 INSPECTIONS

1.1 Dates of inspection

ONR inspectors undertook interventions at Sizewell B Power Station on the following dates during the reporting period:

- 17 - 20 July 2018
- 21 – 24 August 2018
- 19 - 21 September 2018

2 ROUTINE MATTERS

2.1 Inspections

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 2017 (IRR17) and the Management of Health and Safety at Work Regulations 1999 (MHSWR99).

The inspections entail monitoring the 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 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, routine inspections of Sizewell B covered the following:

- Control of modifications to Plant
- Document Control
- Engineering Governance
- Emergency Arrangements

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 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.

In August, ONR undertook an inspection to evaluate standards of engineering governance at Sizewell B power station, as part of an intervention to examine this topic across the EDF Energy Nuclear Generation Limited (NGL) fleet. During the inspection, ONR examined topics including: engineering capability; compliance with company's engineering practices and processes; and the effectiveness of risk management, mitigation and resolution. We found that the overall level of experience within the Engineering Department was good and concluded that Sizewell B Engineering Department has appropriate capability to perform its function. We also concluded, based on our examination implementation of the walkdown and maintenance strategy report review (MSSR) process, we consider that the site has adequately implemented NGL's Equipment Reliability processes.

2.1.1 System Based Inspections

In addition to our program of site licence compliance inspections, ONR also undertakes system based inspections (SBI) which are focused on the station's critical safety systems and structures and are derived from the licensee's safety cases. During the period, ONR performed a system based inspection of the station's heating and ventilation systems (HVAC). The principal focus of the SBI was to evaluate the implementation of safety case claims on equipment provided to supply and extract air within radiological controlled areas via inspections performed under the following site licence conditions:

- 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

After considering the evidence examined during the inspection we judged that the station's heating and ventilation equipment met the requirements of the associated safety case. We awarded **Green** inspection against licence conditions LC10, LC23, LC24, LC27 and LC34.

With respect to LC28, we noted that in recent years NGL have made significant investments to enhance the reliability and operability of Sizewell B's HVAC systems. Nonetheless, during the inspection we noted a number of opportunities for NGL to optimise maintenance regimes for HVAC equipment. In particular, we noted that NGL do not routinely perform tests within radiologically controlled areas to evaluate the performance of its ventilation systems. We therefore assigned an inspection rating of **Amber** against LC28. NGL agreed to address our findings, which will be tracked via entries on the ONR issues database.

2.2 Other work

In July, NGL informed ONR that planned inspections had identified corrosion affecting a water storage tank at Sizewell B. The nominated site inspector wrote to NGL requiring submission of a strategy and programme for remediation of the tank. NGL has subsequently provided a satisfactory response. ONR will track progress of this work via an entry on the ONR issues database.

The nominated site inspector attended the July meeting of the Sizewell site stakeholder group.

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.

There were no such matters or events of significance during the period.

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 take a range of enforcement actions, to include issuing an Enforcement Notice.

- No LIs, Enforcement Notices or Enforcement letters were issued during this period.

5 NEWS FROM ONR

Stakeholder Engagement

- In August our Chief Nuclear Inspector Mark Foy and Deputy Chief Inspector Mina Golshan, hosted a webinar for stakeholders on the outcomes of the UK report to the Joint Convention. This is a new channel of communication which we have introduced, and further webinars are planned for November and February 2019. If you would like to find out more, please contact the ONR Communications team at contact@onr.gov.uk
- The ONR/NGO engagement forum took place on 11 October in London. This is a forum to discuss strategic, cross-cutting regulatory matters. Site specific matters are normally addressed via Site Stakeholder Groups. We are always keen to engage with a range of stakeholders and groups on nuclear safety and security issues, so if you do represent a nuclear-interest Non-Governmental Organisation, and are not already involved through our forum or via a Site Stakeholder Group, then please get in touch with the ONR Communications team for further details, via contact@onr.gov.uk

Regulatory News

- On 25 July we announced our decision to prosecute the Atomic Weapons Establishment for offences under Section 2 (1)* of the Health and Safety at Work etc. Act (1974). This charge related to an electrical incident on 27 June, 2017, which resulted in injury to an AWE employee. The incident was a conventional health and safety matter and there was no radiological risk to workers or the public. At a court hearing on 18 September, AWE pleaded guilty to the charge and sentencing was adjourned until 9 November, 2018.

In a separate case brought by ONR, EDF Energy Nuclear Generation Ltd and Doosan Babcock Ltd pleaded guilty on 10 October, 2018) to offences under the Health & Safety at Work etc. Act 1974, section 3(1) and the Work at Height Regulations 2005, Regulation 4(1) respectively. The charges relate to an incident on 12 April 2017 at the Hinkley Point B nuclear power station, which resulted in a serious injury to a Doosan Babcock Ltd employee. Following a hearing at Taunton Magistrates Court, the case was committed for sentencing at Taunton Crown Court with an initial hearing date set for 16 November 2018, although this date is subject to change.

Both of these cases related to conventional, industrial-type incidents that would have been subject to regulation by the Health and Safety executive prior to ONR's creation four years ago, when we gained responsibility for such matters on licensed sites. There was no radiological risk to workers or the public.

Updates on each case will be published on our website www.onr.org.uk

- We have recently published our [Statement of civil incidents](#) meeting the Ministerial Reportable Criteria (MRC) reported to ONR - Q2 2018 (1 April 2018 to 30 June 2018). Full details are available on our [website](#).

Corporate News

- In July we published our second [gender pay report](#). The organisation-wide results show that ONR has a mean gender pay gap of 35.2%, which is wider than last year, although it is broadly similar to the rest of the UK nuclear industry and anticipated given our workforce profile, and that of the industries from which we have historically

recruited. ONR is committed to addressing this issue and continues to focus on improving diversity and inclusion.

- Our Chief Executive, Adrienne Kelbie, has agreed a three-year contract extension, taking her term of employment to January 2022.
- The Department for Work and Pensions has started the process for recruiting a new ONR Chair (further details can be found on the [public appointments website](#)). Our current Chair, Nick Baldwin CBE, will remain in office until 31 March, 2019.

6 CONTACTS

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