



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

Report for period 1 January to 31 March 2019

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 for the Sizewell Stakeholder Group and are also available on the ONR website (<http://www.onr.org.uk/llc/>).

Site inspectors from ONR usually attend Sizewell Stakeholder Group 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.

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1 INSPECTIONS

1.1 Dates of inspection

The ONR site inspector made inspections on the following dates during the report period 1 January to 31 March:

- 14 to 18 January;
- 11 to 14 February;
- 11 to 15 March;
- 25 to 28 March.

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:

- Modifications to plant, equipment and safety cases;
- Management of operations including control and supervision;
- Examination, maintenance, inspection and testing;
- Radioactive waste management.

In general, except where described below 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.

Modifications to plant, equipment and safety cases

Control and instrumentation specialist inspectors carried out an inspection to determine the licensee's readiness to undertake invasive installation of Westinghouse integrated system for centralised operation (WISCO) 2 hardware and software during the Sizewell B refuelling outage (RO) 16. They considered that the key stakeholders appear to be well integrated and that adequate nuclear safety oversight is being given to the project by the licensee's Independent Nuclear Assurance (INA) and the Project Safety Review Group (PSRG). Reasonable progress had been made with regard to developing and implementing training, test & commissioning and operations & maintenance arrangements and issuing the

associated documentation. However, at the time of the inspection, the inspectors did not consider that the licensee was ready to begin invasive installation. Further Level 4 meetings were therefore planned for the licensee to demonstrate progress.

The site inspector carried out an inspection of the licensee's arrangements for close-out of modifications. He selected a number of modifications that have changed status within the last twelve months for sample inspection, focusing on the implementation, return to service of plant and closeout of modifications. He confirmed that documentation for the implementation, return to service of plant and closeout of the modification had been prepared in accordance with NGL's arrangements. He judged these documents had been subject to review and approval by competent staff consistent with ONR's expectations for LC22. On the basis of the modifications and urgent modifications sampled, he considered that modifications are being appropriately categorised at Sizewell B.

Management of operations including control and supervision

A team of inspectors consisting of the site inspector and a number of specialist inspectors carried out an inspection of the licensee's arrangements for the control of work contractors. This inspection formed part of a series of inspections conducted across the fleet of operating nuclear power stations. The inspection involved interviews with licensee staff and contractor organisations, observations at point of work, and review of documentation. It concluded that the licensee met ONR's expectations for the control of work contractors.

The site inspector carried out an inspection of the licensee's arrangements for control and supervision, focussing on the standards of control room alarm management at Sizewell B. This involved the inspector observing activities in the main control room, discussions with staff and examination of data. He concluded that the standards of alarm response, shift handover and briefing were consistent with relevant good practice. A minor area for improvement was noted against the licensee's corporate arrangements for alarm management. The licensee agreed to review these arrangements and implement improvements if necessary. This commitment will be managed via an entry on the ONR issues database.

Examination, maintenance, inspection and testing

The site inspector and a team of specialist inspectors carried out an inspection of the licensee's implementation of its arrangements to monitor delivery of maintenance of plant which may affect safety, and its process to plan and prioritise defect resolution. The inspection involved discussion with personnel responsible for overseeing this work and examination of the company's electronic maintenance database. The inspectors were satisfied that the categorisation of maintenance at Sizewell B (based on safety significance of the work) was consistent with ONR's expectations, and that the station's arrangements to ensure that maintenance activities are conducted in a timely fashion were consistent with relevant good practice. Finally, the inspectors sampled maintenance records and considered that they demonstrated that the licensee had made decisions regarding prioritisation of outage defects on a risk informed basis.

Radioactive waste management

A nuclear liabilities regulation specialist inspector carried out an inspection of the licensee's arrangements for compliance against LC 32, accumulation of radioactive waste. On the basis of the evidence sampled, taking into account her interactions with licensee staff and her observations during the plant walkdown, she judged that the licensee's arrangements for higher activity waste management and their implementation on site for compliance with LC32 were consistent with relevant good practise.

Systems based inspection

The site inspector and a team of specialist inspectors performed a safety case informed systems based inspection (SBI) of Sizewell B's Fire Protection Systems to judge the system performance against its safety function. Overall the team judged that arrangements for the fire

protection system met legal requirements and delivered the safety function claimed by the safety case.

Dry fuel store readiness inspection

The site inspector and a team of specialist inspectors performed an inspection to evaluate the licensee's progress in implementing learning identified during the active commissioning of the station's dry fuel store. The inspection was intended to inform ONR's decision whether to release a regulatory hold on the implementation of the facility's operational safety case. The evidence gathered from this inspection confirmed that dry fuel store commissioning had been successful and sufficient progress had been made to support the release of ONR's hold point on implementation of the facility's operational safety case.

Annual review of safety and security

The incoming and outgoing nuclear safety and civil nuclear security site inspectors and delivery lead for operating facilities also visited the site during the reporting period for the annual review of safety and security. The licensee provided a comprehensive review of the station's performance over the past twelve months and improvements implemented over that period. The station lead team also explained the key focus areas within the station business plan over the coming period. ONR acknowledged the safety and security improvements which have been implemented on the station.

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. Reports detailing the above regulatory decisions can be found on the ONR website at <http://www.onr.org.uk/pars/>.

5 NEWS FROM ONR

Enforcement Action

A summary of enforcement action is provided below. Further detail is available on [our website](#).

- Improvement notice issued to Sellafield Ltd on 4 January 2019 – requires improvements to be made in its principal contractor arrangements for construction, design and management.
- On 1 February, following ONR's prosecution, EDF Energy Nuclear Generation Ltd and Doosan Babcock Ltd were fined £200,000 and £150,000 respectively following an incident where a worker fell from height at Hinkley Point B power station in 2017.
- Two improvement notices issued to two transport logistics companies on 4 February following breaches in regulations for the safe transport of radioactive materials.

- Two improvement notices issued to EDF Energy on 20 February following an incident on 19 November 2018 at Heysham 1, which resulted in injury to three EDF Employees.

**Although outside the current reporting period, we can confirm that on 2 April 2019, Sellafield Ltd were fined £380,000 following ONR's prosecution for safety breaches relating to equipment used for the processing of plutonium.*

Regulatory updates

Following the introduction of new integrated [Environmental Authorisations Regulations in Scotland](#), the [MOU between ONR and the Scottish Environmental Protection Agency](#) has been updated. The MOU ensures effective cooperation and collaboration in the regulation of nuclear safety, security, radioactive materials transport, nuclear safeguards and environmental protection on nuclear licensed sites and at other sites where both ONR and SEPA have regulatory functions.

In February, [a new nuclear site licence was granted to Tradebe Inutec](#) for their Winfrith site in Dorset. A new site licence was required following Tradebe Inutec's acquisition of buildings and land at the Winfrith site from the Nuclear Decommissioning Authority (NDA) in February 2019.

We published a report detailing safety "events" that took place in the UK between 2015-2017 in March. The report details the 56 safety significant events that took place between April 2015 and December 2017 – describing each event, the dutyholder's response, and the actions taken by the ONR. The full report is available on our [website](#).

Stakeholder Engagement

In February, our Chief Nuclear Inspector, Mark Foy and Technical Director, Anthony Hart hosted a webinar which focused on the first Topical Peer Review of 'Ageing management of nuclear power plants and research reactors.' Further details about the webinar are available on our [website](#).

We published our [2018 Stakeholder Survey report](#), in February following the survey in October/November last year. Stakeholders from across the sector were invited to take part in the survey with 329 responses received, providing valuable insight into how we are viewed by our stakeholders. The full report is available on our [website](#).

On 28 March, we held our NGO Forum in Manchester and were delighted to welcome 15 NGO representatives from 12 organisations. We'll be making the minutes, agenda, presentations and pre-event briefing papers available on our website over the coming weeks.

Corporate news

In February we announced the appointment of Mark McAllister as the new Chair of ONR. Mark will join ONR from 1 April, succeeding Nick Baldwin CBE.

We were delighted that our Chief Executive was recognised as Transformational Leader at the Northern Power Women Awards 2019, an event that celebrates the women and men working towards accelerating gender diversity across the Northern Powerhouse. Adrienne won the award in recognition of her work in leading ONR through significant change while, in parallel, driving gender balance.

ONR has been recognised for its commitment to equality, diversity and inclusion by gaining accreditation to the National Equality Standards (NES).

We are embarking on the final year of our ONR Strategic Plan 2016-2020. So we are now starting to look ahead to what the next five years will bring and beginning to develop our new strategy for 2020-25. We're not doing this alone; we've already started talking to our staff and we are asking our stakeholders for their views to shape our plans. We are really keen to hear from SSG and LLC members and attendees to help us develop our strategic aims and objectives. We'd like to know:

- What is working well that we should keep doing and/or do more of?
- What do you think our top regulatory priorities should be in the 2020s?
- What do you think is missing from our current Strategic Plan that needs to feature in the next one?

We intend to consult on our draft strategy in the autumn, but in the meantime, if you'd like to share your comments and suggestions please email us at: contact@onr.gov.uk . We look forward to hearing from you.

6 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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