



Office for
Nuclear Regulation

ONR site report

EDF Energy – Sizewell B

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Report for period: 1 October – 31 December 2025

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Approved by: Head of Operating Reactors

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Foreword

This report is issued as part of our 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 SSG and are also available on our website: www.onr.org.uk/publications/regulatory-reports/site-specific-reports/lcssg-reports.

Our site inspectors usually attend Sizewell SSG meetings where these reports are presented and will respond to any questions raised there. Any person wishing to inquire about matters covered by this report should contact us via email at contact@onr.gov.uk.

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1. Inspections

1.1. Date(s) of inspection

The ONR site inspector made inspections on the following dates during the report period 1 October – 31 December 2025:

1 – 2 October

7 – 9 October

25 – 27 November

8 – 11 December

ONR specialist inspectors also made inspections on the following dates during the report period 1 October – 31 December 2025

7 – 8 October

9 December

ONR Head of Regulation made an inspection on the following date during the report period 1 October – 31 December 2025:

8 December

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 etc 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 and assessments of Sizewell B covered the following:

- Feed and condensate system based inspection
- Licence condition 7 'Incidents on the site' inspection
- Annual review of safety, security, safeguards and environment

Feed and condensate system based inspection (SBI)

The feed and condensate system was inspected, with particular focus being the main feed isolation valves (MFIVs), condensate polishing plant (CPP), chloride ingress protection and water treatment plant.

The inspection was carried out by an ONR chemistry specialist inspector, supported by the nominated site inspector.

The inspection focussed on the delivery of safety case claims for the main feed system associated with safety functions and safe shutdown. We noted that the main feed system is predominantly claimed to prevent over feeding and overcooling the reactor, with prevention of thermal shock claims made against safety class 1 functions associated with feed regulation, the closure of isolation valves and provision of water.

We noted that chemical control via the CPP is designated as a safety class 3 system with chemical control discussed more generally in other supporting process documentation.

Overall from the evidence sampled we concluded that:

- LC 10 (Training) – We sampled training records for the CPP System Engineer and a Chemistry Engineer. We judged a rating of GREEN to be appropriate.
- LC 23 (Operating rules) – We were content that adequate operating rules existed and were complied with for the MFIVs. Additionally, we were satisfied that adequate actions on receipt of alarms were in place for significant chemistry parameters. We judged a rating of GREEN to be appropriate.
- LC 24 (Operating instructions) – We sampled the implementation of limits and conditions in written instructions and specifically the instruction to bring the CPP into operation in the event of feedwater chemistry transients. Additionally, we sampled action on receipt of alarm instructions for high sodium in feedwater. Based on the sample, we were content that adequate instructions were in place to deliver compliance with limits and conditions. We judged a rating of GREEN to be appropriate.
- LC 27 (Safety mechanisms, devices and circuits) – We sought evidence in the availability of MFIV since they are a safety class 1 system. Based on the sample, we were satisfied that adequate testing had been completed to demonstrate availability of MFIVs. We judged a rating of GREEN to be appropriate.
- LC 28 (Examination, inspection, maintenance and testing) – We sampled the high level system health metrics for the main feed, main steam and CPP systems. We were satisfied with general plant condition for all systems sampled. We also sampled the maintenance strategy review for the CPP system. Based on our sample, we judged a rating of GREEN to be appropriate.
- LC 34 (Leakage and escape of radioactive materials and radioactive waste) – We sampled arrangements for detection of a steam generator tube rupture, steam generator isolation and operation of the CPP. Based on the sample, we judged a rating of GREEN to be appropriate.

Based on the evidence sampled, we were content that Sizewell B was adequately implementing the feed and condensate safety case, and that systems sampled were available to perform their safety functions. We therefore concluded that an overall rating of GREEN (no formal action) to be appropriate for this system based inspection.

Licence condition 7 'Incidents on the site' compliance inspection

The aim of the inspection was to sample the implementation of arrangements to determine the dutyholder's compliance with LC 7 - Incidents on the site. Arrangements associated with the reporting of events, event sentencing and categorisation, trending, investigation, actions and action tracking were sampled.

From the evidence sampled we noted that the site's Business Improvement Team, who fundamentally managed arrangements under LC 7, had increased its organisational resilience for managing incident reporting and monitoring by increasing in size and by sharing responsibilities between team members and had recently introduced a weekly database for monitoring reporting deadlines.

We sampled 'Condition Reports' raised in response to incidents and judged them to be appropriately sentenced and the associated corrective actions to also be appropriate for improving safety performance in order to prevent incident recurrence.

We sampled an investigation which the site undertook following a reactor trip and we were satisfied that an adequate investigation had been carried out and that appropriate corrective actions were being implemented. We also noted evidence of appropriate trending data, reported to the senior management team, used to actively identify opportunities to improve safety performance.

Overall we judged, from the evidence sampled, that the dutyholder adequately demonstrated compliance with LC7 and an overall rating of GREEN (no formal action) to be appropriate.

Members of the public who would like further information on our inspection activities during the reporting period can view site inspection records on our website:

www.onr.org.uk/publications/regulatory-reports/site-specific-reports/inspection-records.

Should you have any queries regarding our inspection activities, please email contact@onr.gov.uk.

2.2. Other work

We joined Environment Agency nuclear regulatory representatives at the Sizewell B 'Annual Review of Safety, Security, Safeguards and Environment' meeting. This meeting was an opportunity for Sizewell B to present and discuss performance as well as discuss future projects. In advance of the meeting, the morning was spent inspecting facilities which included the turbine hall, spent fuel pond, water treatment trailers/plant, compressed air and instrument air facilities and new outage store.

Overall no issues were identified from the plant inspection or subsequent meeting.

3. Non-routine matters

Licensees are required to have arrangements to respond to non-routine matters and events. Our 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

We may issue formal documents to ensure compliance with regulatory requirements. Under nuclear site licence conditions, we issue regulatory documents, which either permit an activity or require some form of action to be taken. These are usually collectively termed licence instruments but can take other forms. In addition, inspectors may take a range of enforcement actions, to include issuing an Enforcement Notice.

No licence instruments, enforcement notices or enforcement letters were issued during this period.

Reports detailing regulatory decisions can be found on our website:
www.onr.org.uk/publications/regulatory-reports/site-specific-reports/project-assessment-reports.

5. News from ONR

For the latest updates and information on our work, please subscribe to our regular email newsletter, ONR News, at [ONR - Email newsletter - 'ONR News'](#)

6. Contacts

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References

There are no sources in the current document.