



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

Report for period 01 April 2017 to 30 June 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 Site Stakeholder Group (SSG) and are also available on the ONR website (<http://www.onr.org.uk/llc/>).

Site inspectors from ONR usually attend Sizewell SSG meetings 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

1 INSPECTIONS

1.1 Dates of inspection

1. The ONR nominated site inspector made inspections, supported where appropriate by specialist inspectors, on the following dates during the quarter:

18 – 20 April 2017

16 – 17 May 2017

30 May – 2 June 2017

12 – 14 June 2017

2. ONR's civil nuclear security inspectors undertake quarterly inspections at Sizewell B. The quarter 2 planned inspection was undertaken on:

19 - 23 June 2017

2 ROUTINE MATTERS

2.1 Inspections

3. 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 etc. (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).
4. 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 conditions attached to the licence in order to ensure legal compliance. Inspections seek to judge both the adequacy of these arrangements and their implementation.
5. In this period, routine inspections of Sizewell B covered the following:
 - Training
 - Operating rules
 - Operational records
 - Control and supervision of operations
 - Safety mechanisms, devices and circuits
 - Duly authorised and other suitably qualified and experienced persons
6. 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.

7. In addition to our compliance inspections based on the conditions attached to the nuclear site licence, ONR inspectors also inspect operating reactors against safety related systems. Each site has a safety case that demonstrates how it operates safely. 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.
8. During this quarter, there were no system based inspections undertaken.
9. On 17th May 2017, ONR observed the annual Level 1 Demonstration, Exercise Eagle 17. ONR judged this to have been overall an adequate demonstration of the station's arrangements made under Licence Condition 11. Notwithstanding this, the station did not fully demonstrate its capability to deploy and connect deployable back-up equipment. ONR has since written to the station requesting a re-demonstration of this element of the exercise objective within an appropriate context before 31st March 2018.
10. This was followed by a Level 2 demonstration of the offsite emergency arrangements, in accordance with requirements under REPPiR. A range of learning opportunities arose which have been considered at the emergency planning consultative committee on 14th June 2017.

2.2 Dry Fuel Store (DFS) Project

11. EDF Energy Nuclear Generation Ltd successfully completed active commissioning for the dry fuel store following the transfer of seven storage casks to the new facility. ONR considered that operations were being satisfactorily controlled through the licensee's governance and oversight arrangements. This included control of radiological exposures and equipment performance.
12. Further details of ONR's intervention records can be found at <http://www.onr.org.uk/intervention-records>.

3 NON-ROUTINE MATTERS

13. 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.
14. There were no incidents during this reporting period at Sizewell that required regulatory follow-up.

4 REGULATORY ACTIVITY

15. 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. There were no Licence Instruments issued to Sizewell B during this reporting period.
16. During a routine inspection undertaken on 12th June 2017, ONR was apprised of long-standing reliability issues associated with the Heating, Ventilation and Air Conditioning (HVAC) chillers which maintain the required ambient conditions for nuclear safety related and auxiliary plant. During the inspection there were five such nuclear

significant chillers unavailable due to a combination planned work and emergent defects. ONR has written to the station on 17th July 2017 to seek assurances as to the programme for replacement of the affected chillers, and that in the interim the station is implementing all reasonably practicable measures and resources to maximise availability of the existing chillers.

17. No Enforcement Notices were issued during the period.

5 NEWS FROM ONR

18. Insight into ONR's work as an independent regulator of the nuclear industry can be found in ONR's [Regulation Matters](#). The online publication (reports on the key themes and developments in each of ONR's regulatory programmes and provides an update about the on-going changes at ONR. For the latest news and updates from ONR visit the [website](#) and sign up for our [ebulletin](#).
19. ONR Chair awarded CBE - In the Queen's Birthday Honours announced in June, Chair of the Office for Nuclear Regulation, [Nick Baldwin](#), was appointed a Commander of the Order of the British Empire for services to nuclear safety and security in Britain and to the charitable sector.
20. Regulatory Research Report published - ONR has published its [annual regulatory research report](#) which describes the [research activities](#) we have conducted in the past year.
21. The report includes case studies showing how our research strategy has helped support our regulatory approach, and helps to inform the development of best practice. It can be viewed at www.onr.org.uk/research

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