



Office for Nuclear Regulation (ONR) Quarterly Site Report for Hinkley Point B Power Station

Report for period 01 October 2016 – 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 Site Stakeholder Group and are also available on the ONR website (<http://www.onr.org.uk/lrc/>).

Site inspectors from ONR usually attend Hinkley Point Site 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 site inspector made inspections on the following dates during the quarter:

- 04 – 06, 24 – 28 October
- 15 – 16 November
- 19 – 22 December

In addition, ONR specialist inspectors undertook inspections on the following dates during the quarter:

- 05 – 06 October
- 15 – 16, 30 November
- 19 – 21 December

2 ROUTINE MATTERS

2.1 Inspections at Hinkley Point 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 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.

In this period, routine inspections of Hinkley Point B covered the following:

- Licence Condition 11: Emergency arrangements.
- Licence Condition 28: Examination, inspection, maintenance and testing
- Licence Condition 22: Modification or experiment on plant.
- Ionising Radiations Regulations 1999(IRR99), compliance inspection

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.

3 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 Hinkley Point 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:

- Seawater systems
- CO2 processing and blowdown systems

ONR judged that overall the systems and structures met the requirements of the safety case and are being adequately managed and maintained.

Further details of ONR's intervention records can be found at <http://www.onr.org.uk/intervention-records>.

3.1 Other work

The site inspector held a periodic meeting with safety representatives, to support their function of representing employees and receiving information on matters affecting their health, safety and welfare at work.

4 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.

Matters and events of particular note during the period were:

4.1 Fire within 415v Essential Services Board 8B.

On 21 November 2016, a small fire was detected within the 415V Essential Services Board 8B electrical cubicle and was confined to the cubicle. It was extinguished by the on-site fire response team, and was confirmed to be out by Devon and Somerset Fire and Rescue Service who responded to the alarm and attended site. Electrical supplies were reconfigured to allow the board to be isolated for investigation and repair. The site went into Operational Alert status on a 24 hour basis to ensure focus was maintained to repair the affected cubicle and restore normal configuration of electrical supplies. The 415V essential services board 8B provides power supplies to the 50V and the 110V battery chargers which are intended to maintain supplies to essential plant and equipment with nuclear safety significance. Moreover, it also supplies a number of boiler feedwater control cubicals which monitor and control the flow of feedwater to the boilers.

No one was injured and there was no release of radioactivity as a result of this event. ONR undertook an event follow-up inspection to establish the facts and to judge the adequacy of the licensee's response. ONR inspectors were content that the licensee's initial response to the event was adequate and that progress against short and long-term actions identified by the licensee to prevent a repeat event are suitable and sufficient. ONR will continue to monitor progress against these actions and those identified by ONR and take appropriate regulatory action if necessary.

5 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.

- No LIs or Enforcement Notices were issued during the period.

6 NEWS FROM ONR

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>).

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