



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

Report for period 1 October 2017 – 31 December 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 of the Local Community Liaison Committee and are also available on the ONR website (<http://www.onr.org.uk/lc/>).

Site inspectors from ONR usually attend Hinkley SSG meetings 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

1. The ONR nominated site inspector and other ONR inspectors made inspections on the following dates during the quarter:
 - 9 - 10 October 2017
 - 24 – 27 October 2017
 - 14 – 16 November 2017
 - 19 - 20 December 2017

2 ROUTINE MATTERS

2.1 Inspections

2. 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 Regulatory Reform (Fire Safety) Order 2005
 - the Nuclear Industries Security Regulations 2003
3. 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. Where relevant, the licensee (EdF Energy Nuclear Generation Ltd) 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.
4. In this period, the following routine inspections were undertaken:
 - Licence condition 12 – Duly authorised and other suitably qualified and experienced persons
 - Licence condition 14 – Safety Documentation
5. Licence condition 12 - A compliance inspection was undertaken against duly authorised and other suitably qualified and experienced persons (SQEP) on site. ONR sampled the licensee's arrangements for training, assessment, appointment and management of Duly Authorised Persons (DAPs) & SQEPs. ONR inspectors also sampled the training records and held discussions with a number of staff nominated to the DAP roles. This included a reactor desk engineer, control room supervisor and shift managers. Based on the areas sampled on the day, ONR judged that the licensee's arrangements and their implementation in compliance with LC12 are suitable and sufficient. A few minor observations were fed back to the licensee for consideration. In accordance with the ONR inspection rating guide a GREEN rating was awarded, with no formal regulatory action required.

6. Licence condition 14 - LC14 requires the licensee to make and implement adequate arrangements for the production and assessment of safety cases consisting of documentation to justify safety during all phases of operation. As part of a compliance inspection, ONR inspectors sampled the licensee's arrangements for authoring, verification, categorisation, approval and implementation of safety documentation focusing on modifications to plant and processes. Inspectors also sampled the extant list of Interim Justification for Continued Operation (IJCOs) and held discussions with staff to gain regulatory confidence in the visibility and usability of the safety case. Based on the sample, inspectors concluded that the requirements had been met and that Hinkley Point B had robust arrangements to control, author, verify and track the production of safety case documentation. In accordance with the ONR inspection rating guide a GREEN rating was awarded, with no formal regulatory action required.
7. In addition to the program of site licence compliance inspections, ONR also inspects operating reactors based on safety related systems. Each site 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 over a five-year period. ONR considers that this will provide additional assurance that operations on the site are safe. Each of these system 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 (if applicable): Leakage and escape of radioactive material and radioactive waste
8. During the reporting period, the following safety related systems were inspected:

Reactor Shutdown Sequencing Equipment (RSSE)
9. This System Based Inspection (SBI) targeted the RSSE system. The RSSE is a reactor based relay logic system, the purpose of which is to ensure that in the event of a reactor trip, adequate Post Trip Cooling (PTC) plant is initiated automatically to safely cool the reactor. The removal of reactor decay heat is achieved by automatically introducing feed water to the main boilers and controlled gas flow for all plant operating conditions within the station's safety case.
10. After considering the totality of evidence examined during the inspection against the relevant licence conditions listed above (LCs 10, 23, 24, 27 and 28), the ONR inspectors judged that the RSSE system met the requirements of the associated safety case. LC34 was judged not to be applicable to the scope of this system inspection. The arrangements in place were suitable overall and were being implemented in a satisfactory manner. A number of areas of good practice were noted and a number of minor inconsistencies associated with maintenance records were fed back to the licensee. In accordance with the ONR inspection rating guide a GREEN rating was awarded, with no formal regulatory action being required.

2.2 Other work

11. A themed inspection was undertaken by a team of ONR inspectors to evaluate EDF Energy Nuclear Generation Limited (NGL) Hinkley Point B's Engineering Department and Central Technical Organisation governance arrangements. This forms one of a series of interventions to be carried out across the EDF fleet of nuclear sites. The themed inspection examined compliance against LC10 (Training) and LC17 (Management Systems). Based on the evidence sampled, the ONR inspectors judged that legal requirements were met. This view was based on evidence that Hinkley Point B's Engineering Department were following required arrangements in ensuring that suitable training was provided for all those who have responsibility for any operations that may affect safety and that management systems give due priority to safety. In accordance with the ONR inspection rating guide a GREEN rating was awarded, with no formal regulatory action being required.

3 NON-ROUTINE MATTERS

12. No non routine matters during this period

4 REGULATORY ACTIVITY

12. 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.

Table 1
Licence Instruments and Enforcement Notices Issued by ONR during this period

Date	Type	Ref No	Description
N/A			No Licence Instruments or Enforcement Notices were issued during the 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

New Nuclear Power Station Design Approved

13. The UK Advanced Boiling Water Reactor (UK ABWR), designed by Hitachi-GE, is suitable for construction in the UK, the regulators confirmed following completion of an in-depth assessment of the nuclear reactor design. The Office for Nuclear Regulation, the Environment Agency and Natural Resources Wales, the regulators who undertake the Generic Design Assessment of new reactor designs, are satisfied that this reactor meets regulatory expectations on safety, security and environmental protection at this stage of the regulatory process. ONR has issued a Design Acceptance Confirmation and the environment agencies have issued a Statement of Design Acceptability to Hitachi-GE.

Step 2 of Nuclear Reactor Assessment

14. We also announced in November 2017 that we are progressing to the next phase of our assessment of the General Nuclear System Limited (GNS) UK HPR1000 nuclear reactor technology. This means we will now begin the technical assessment phase. Additionally, all members of the public can give their views and find out more information about the design by going to UKHPR 1000 website at www.ukhpr1000.com.

Other news:

ONR Response to BEIS Impact Assessment

15. The Department for Business, Energy and Industrial Strategy (BEIS) has recently published its Impact Assessment of the Nuclear Safeguards' Bill and that makes reference to ONR's regulation. We contacted BEIS to clarify two points within the document as part of our ongoing constructive engagement with them to develop a domestic safeguards regime as part of exiting Euratom. The first is that ONR regulates the nuclear industry; it does not provide services to it. Secondly, the Government's policy has developed since the assessment was undertaken and the intention is to put in place a regulatory framework which is as robust and as comprehensive as Euratom. This means that we are not in a position to identify potential efficiencies in our regulatory approach at this stage. As we support BEIS in its development of secondary legislation, we will provide advice to the Government to inform the anticipated impact assessment for nuclear safeguards regulation.
16. For the latest news and updates from ONR visit the website and sign up for the ONR Newsletter (<http://www.onr.org.uk/ebulletin/index.htm>).

6 CONTACTS

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This document is issued by the Office for Nuclear Regulation (ONR). For further information about ONR, or to report inconsistencies or inaccuracies in this publication please visit <http://www.onr.org.uk/feedback.htm>.

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