



Office for
Nuclear Regulation

Office for Nuclear Regulation (ONR)
Site Report for
HINKLEY POINT C

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 published on the ONR website (<http://www.onr.org.uk/lhc>).



TABLE OF CONTENTS

1	INSPECTIONS.....	3
2	ROUTINE MATTERS.....	3
3	NON-ROUTINE MATTERS.....	4
4	REGULATORY ACTIVITY	5
5	NEWS FROM ONR.....	5
	CONTACTS	6

1 INSPECTIONS

The ONR nominated site inspector and/or other ONR specialist inspectors made inspections on the following dates during the quarter at the HPC construction site:

- 24 – 26 October 2017
- 08 – 09 November 2017
- 30 November – 01 December 2017
- 20 – 21 December 2017

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 1999 (IRR99) and the Management of Health and Safety at Work Regulations 1999 (MHSWR99).

ONR has implemented a programme of intervention to:

- secure ONR's regulation of the construction and installation of two UK EPR™ reactor units by NNB GenCo (HPC) Ltd.;
- ensure that NNB GenCo (HPC) Ltd. is complying with its legal responsibilities;
- conduct theme focused interventions and cross-theme team inspections aimed at gathering evidence to form a judgement on the on-going development of NNB GenCo (HPC) Ltd.'s competence and capability and the effectiveness of its management arrangements for the controlling procurement, design and manufacture;
- to inform ONR's judgement on the adequacy of NNB GenCo (HPC) Ltd.'s site construction related compliance arrangements to support ONR's permissioning decisions in relation to start of pumping station construction and first nuclear island concrete.

In this period, routine site inspections covering the following Licence Conditions (LCs) were performed:

- LC11 – Emergency arrangements
- LC17 – Management systems (two inspections)
- LC19 – Construction or installation of new plant (two inspections)

As NNB GenCo (HPC) Ltd.'s construction activity increases at the HPC site, ONR's site interventions will include increasing focus on NNB's ability to adequately control construction at the HPC site in accordance with NNB GenCo (HPC) Ltd.'s justified design.

For all LCs inspected, ONR judged that NNB GenCo (HPC) had adequately implemented its licence compliance arrangements with only minor areas for improvement being identified.

In addition to ONR's routine site inspection programme ONR carried a Chief Nuclear Inspector's (CNI) inspection examining the adequacy of NNB GenCo (HPC) Ltd.'s supply chain management. This inspection was the first CNI inspection to be completed by ONR and included a site inspection element at the HPC site. The resulting intervention report will be published on the ONR website once finalised.

ONR continues its engagement with the project via site visits and meetings at NNB GenCo (HPC)'s office locations across the following themes:

- Design and Safety Case
- Organisational Capability
- Conventional Health and safety and fire safety
- Security

These inspections are providing ONR with valuable intelligence on the progress NNB GenCo (HPC) is making to continue developing its competence and capability to manage the design, procurement and construction of Hinkley Point C.

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.

During the reporting period NNB GenCo (HPC) Ltd. informed ONR that it had taken the decision to remove its First Nuclear Safety Concrete (FNCS) following its assessment of non-conformances relating to the substitution concrete on which the FNCS was placed. The primary issues relating to the positioning and quality of the substitution concrete; there were however no similar issues with the FNCS itself. This removal will allow NNB GenCo (HPC) Ltd. to develop and deploy suitable remediation techniques to ensure that the substitution concrete meets NNB GenCo (HPC) Ltd.'s design specifications. ONR has raised an associated regulatory issue to ensure appropriate oversight of NNB GenCo (HPC) Ltd.'s remediation proposals once they are further developed.

Overall ONR considers NNB GenCo (HPC) Ltd.'s response to this issue to be positive and represents evidence that NNB GenCo (HPC) Ltd. has taken control of the event and is seeking to ensure its quality requirements are delivered onsite.

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', but can take other forms. In addition, inspectors may issue Enforcement Notices to secure improvements to safety.

ONR issued no Licence Instruments or Enforcement Notices during the period of this report.

REPORTS DETAILING REGULATORY DECISIONS TAKEN AT HINKLEY POINT C CAN BE FOUND ON THE ONR WEBSITE AT [HTTP://WWW.ONR.ORG.UK/PARS](http://www.onr.org.uk/pars)

5 NEWS FROM ONR

New nuclear power station design approved

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 (ONR), 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 (DAC) and the environment agencies have issued a Statement of Design Acceptability (SoDA) to Hitachi-GE.

Step 2 of nuclear reactor assessment

We also announced on 16 in November that we are progressing to the next phase of our assessment of General Nuclear System Ltd.'s UK HPR1000 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

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.

Insight into ONR's work as an independent regulator of the nuclear industry can be found on the ONR website news centre (<http://news.onr.org.uk>).. 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>).

CONTACTS

Office for Nuclear Regulation
Redgrave Court
Merton Road
Bootle
Merseyside
L20 7HS
website: www.onr.org.uk
email: ONREnquiries@onr.gsi.gov.uk

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>.

© Office for Nuclear Regulation, 2018
If you wish to reuse this information visit www.onr.org.uk/copyright for details.
Published 01/18

For published documents, the electronic copy on the ONR website remains the most current publicly available version and copying or printing renders this document uncontrolled.