



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

Report for period 1 April 2013 – 30 September 2014

## 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. This report covers the 18 month period to September 2014. This and future quarterly reports will be distributed to members for the Cannington Community Forum and are also available on the ONR website (<http://www.onr.org.uk/hlc/>).

Commencing October 2014 ONR's Hinkley Point C Site inspector will be available to attend two Cannington Community Forum meetings each year and will respond to any questions concerning the regulation of safety. Any person wishing to inquire about matters covered by this report should contact ONR.

## TABLE OF CONTENTS

1	INTRODUCTION .....	3
2	INSPECTIONS .....	3
3	ROUTINE MATTERS .....	3
4	NON-ROUTINE MATTERS .....	5
5	REGULATORY ACTIVITY .....	5
6	NEWS FROM ONR .....	6
7	CONTACTS .....	7

## 1 INTRODUCTION

In Spring 2013 NNB GenCo Ltd announced a pause to the overall programme for the Hinkley Point C Project. In a [statement](#) published on its website ONR announced that it had taken the decision to suspend the production of quarterly site reports for Hinkley Point C pending the resumption of significant construction activity at the site. In March 2014 NNB GenCo Ltd commenced the remobilisation of the site in preparation for start of the earthworks contract. The site is scheduled to commence significant earthworks activity shortly and therefore ONR is resuming the production of its reports commencing with this report covering the 18 months from 1 April 2013 to 30 September 2014.

## 2 INSPECTIONS

### 2.1 Dates of inspection

The ONR site inspector, accompanied by ONR specialist inspectors, made inspections on the following dates during the reporting period:

- 18 & 19 June 2013
- 4 September 2013
- 3 March 2014
- 23 & 24 April 2014
- 1, 2 & 3 July 2014
- 22 & 23 September 2014

## 3 ROUTINE MATTERS

### 3.1 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 is implementing a programme of intervention to:

- secure ONR's regulation of the construction and installation of two UK EPR™ reactor units by NNB GenCo Ltd;
- conduct theme focused interventions and cross-theme team inspections aimed at gathering evidence to form a judgement on the ongoing development of NNB GenCo's competence and capability and the effectiveness of its management arrangements for the controlling procurement, design and manufacture; and
- inform a decision to permission the start of nuclear safety related construction

In this period routine interventions conducted at site and NNB GenCo Ltd's office locations covered the following.

#### Theme – Design and Safety Case

- Safety classification and categorisation
- Conventional fire safety
- Equipment qualification

- Safety case management and production
- Internal hazards and External Hazards
- Civil engineering
- Probabilistic Safety Assessment
- Fault studies
- Control and Instrumentation
- Electrical engineering
- Fuel and core
- Reactor chemistry
- Radiation protection
- System and mechanical engineering
- Human factors
- Structural integrity
- Radioactive waste and decommissioning
- Spent fuel
- Severe accidents

### **Theme - Licence Condition (LC) Compliance Arrangements**

- Integrated Management Systems – LC 17
- Documents and lifetime records – LCs 6 & 25
- On-site construction activities – LC 8, 9 & 11
- Site incidents and Organisational Learning – LC 7
- Quality (inc manufacturing Inspection) – LC 17
- Construction and Installation – LC 19
- Procurement and Supply Chain – LC17
- Plant Operations – LC 11, 23, 24, & 28
- Training and competence – LC10 and 12
- Design Management - LC 20
- Commissioning – LC 21
- Siting and Planning – LC 2, 3 & 16
- Control of nuclear Matter – LC 4 & 5

### **Theme – Organisational Capability**

- Design Authority
- Knowledge Management
- Organisational development and Management of Change (LC 36)
- Project Management
- Internal Regulator Capability
- Governance and Nuclear Safety Committee (LC 13)
- Nuclear Safety Culture
- Intelligent Customer
- Organisational Learning
- Engineering Directorate

### **Cross-Theme Team Inspections**

- Control of modifications to the design of Hinkley Point C EPR™
- Management of Generic Design Assessment Findings

These inspections are providing ONR with valuable intelligence on the progress NNB GenCo is making to continue developing its competence and capability and also on its management of early procurement and design activities.

NNB GenCo is currently not seeking ONR's permission to start nuclear safety related construction.

### **Level 1 Demonstration Emergency Exercises**

ONR attended the site to observe two demonstration emergency exercises during the reporting period.

Demonstration Exercise "Camaro" – 19 June 2013

Desktop Demonstration Exercise "Copenhagen" - 1 July 2014

The purpose of these exercises was to demonstrate to ONR, and to Hinkley Point C site management, the arrangements for responding to Hinkley Point B declaring an off site nuclear emergency. Specifically these exercises demonstrated:

- command and control through the emergency organisation;
- the mustering and accounting for personnel;
- identifying and locating missing persons and the delivery of appropriate medical intervention;
- managing the early stages of Hinkley Point C's response to an emergency.

ONR judged both exercises provided a satisfactory demonstration of the site's arrangements for responding to an incident on the Hinkley Point B site.

### **3.2 Other work**

#### Assessment of Hinkley Point C Pre-Construction Safety Report. 2012

In March 2014 the ONR [published](#) its assessment of the Hinkley Point C Pre-Construction Safety Report 2012 ("HPC PCSR 2012") submitted by NNB GenCo Ltd for the construction of a two EPR™ units at the Hinkley Point C licensed site in Somerset.

The assessment concluded that HPC PCSR 2012 represents is a significant step towards producing a final PCSR for Hinkley Point C. Progress to date is consistent with ONR's expectations for this project. The next revision of the HPC PCSR will fully integrate the site-specific information with the final [Generic Design Assessment PCSR](#) generic material and other design changes arising from experience gained during construction of the single unit EPR™ at Flamanville, France.

## **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.

There were no such matters or events of significance during the period.

## **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.

ONR used routine primary powers under the Hinkley Point C nuclear site licence to issue two approvals under Licence Condition 13: Nuclear safety committee.

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

Date	Type	Ref No	Description
13/12/13	Approval	502	Approval under Licence Condition 13(3) of Amended Hinkley Point C Nuclear Safety Committee Terms of Reference
27/03/13	Approval	503	Approval under Licence Condition 13(11) of arrangements for Urgent Safety Proposals, described in Appendix A of the Hinkley Point C Nuclear Safety Committee Terms of Reference.

Reports detailing the above regulatory decisions can be found on the ONR website at <http://www.onr.org.uk/pars>.

## 6 NEWS FROM ONR

Insight into ONR's work as an independent regulator of the nuclear industry can be found in ONR's Quarterly News. The online publication (<http://www.onr.org.uk/onr-quarterly-report.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>).

### ONR has changed

On 1 April 2014, the ONR was established as a Public Corporation under the Energy Act 2013. The [Energy Act 2013](#) sets out the legal framework for regulation of GB nuclear sites by the ONR. In addition, the ONR has the powers to regulate conventional health and safety on GB nuclear sites. ONR now has its own logo, which will be used on all documents and other external communication media. Other notable changes include a new website and publication of an Annual Plan for 2014/15.

### Communicating enforcement action.

ONR has changed the way that it communicates enforcement action against licensees. Commencing August 2014, ONR will issue a press release to key journalists to communicate issue of prohibition notices (on the day the notice is issued), and improvement/other notices (after any applicable appeal period). The press release will be published on the [news centre](#) of the ONR website and via twitter, and will be reiterated in ONR's [Quarterly News](#).

## 7 CONTACTS

Office for Nuclear Regulation  
Redgrave Court  
Merton Road  
Bootle  
Merseyside  
L20 7HS

website: [www.onr.org.uk](http://www.onr.org.uk)

email: [ONREnquiries@onr.gsi.gov.uk](mailto:ONREnquiries@onr.gsi.gov.uk)

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