



# Office for Nuclear Regulation (ONR) Quarterly Site Report for Bradwell

Report for period 1<sup>st</sup> October 2017 – 31<sup>st</sup> 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 for the Bradwell Site Stakeholder Group and are also available on the ONR website (<http://www.onr.org.uk/llc/>).

Site inspectors from ONR may attend Bradwell 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 visited site on the following dates during the quarter:

- 6 December 2017

### 1.2 ONR held meetings with Bradwell on the following dates during the quarter:

The ONR held meetings with Bradwell site to discuss the assessment of the Bradwell C&M submission on the following dates.

- 2 October 2017
- 6 November 2017
- 11 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);
- 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 Nuclear Industry Security Regulations (NISR) 2003.

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 conditions attached to the licence in order to ensure legal compliance. Inspections seek to judge both the adequacy of these arrangements and their implementation.

ONR is currently focusing on the assessment of the safety submission for entry into a long period of Care and Maintenance scheduled for the second half of 2018.

### 2.3 NON-ROUTINE MATTERS

Licensees are required to have arrangements to respond to non-routine matters and events and report significant events to ONR. ONR inspectors judge the adequacy of the licensee's response, including actions taken to implement any necessary improvements.

An incident occurred during maintenance of a de-humidifier unit serving the Interim Storage Facility (ISF). The paper filter element on the regeneration air stream caught fire after a fan tripped and the forced flow over the heaters stopped. The fire was quickly dealt with and did not threaten any nuclear material in the store as it is enclosed in an adjacent housing outside the main store building.

The unit is of robust galvanised metal construction with good quality construction and industrial grade fixtures and fittings throughout. There was no evidence of discolouration of the components or enclosure that would indicate excessive heat soak at high temperatures nor damage to the electrical cabling or switch gear. Site is planning to replace the filter with a metal casing that will prevent a recurrence. The learning from this incident is being made

available to other Magnox Ltd sites with similar units. ONR is satisfied with the actions taken by the licensee.

### 3 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 formal licence instruments have been issued by ONR during this period.

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

### 4 NEWS FROM ONR

#### **New build:**

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<sup>th</sup> 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](http://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 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.

For the latest news and updates from ONR, you can visit our website and sign up for our e-bulletin: <http://www.onr.org.uk/index.htm>.

## 5 CONTACT

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