



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

Report for period 01 April – 30 June 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 Dounreay Stakeholder Group and are also available on the ONR website (<http://www.onr.org.uk/lrc/>).

Site inspectors from ONR usually attend Dounreay 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 and other inspectors made inspections on the following dates during the quarter:

24 to 26 April 2017  
8 to 10 May 2017  
15 to 18 May 2017  
24 to 25 May 2017  
12 to 15 June 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).

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 Dounreay covered the following:

Incidents on the site;  
Emergency preparedness;  
Operating rules and operating instructions;  
Periodic review;  
Fire safety.

#### Incidents on the site

Licence condition (LC) 7 requires the licensee to have adequate arrangements for the recording, reporting and investigation of incidents on site. ONR also expects the arrangements to include how the licensee will learn from incidents. The inspectors reviewed aspects of the LC 7 arrangements and discussed the outcome of a recent review and the progress in implementing the revised process resulting from that review. The site inspectors sampled the implementation of the licensee's arrangements within the Reactors Directorate, focusing on a number of incidents that have occurred within the Prototype Fast Reactor (PFR) and tracked the incidents from their notification through the conduct of the subsequent 'fact find' and investigation to the management of the outcomes from these investigations. This included action management, identification and implementation of improvements, and the trending of incidents to identify themes and emerging issues.

Based on the evidence sampled the inspectors considered that the licensee's arrangements for LC 7 and the implementation of those arrangements within the Reactors Directorate demonstrate adequate compliance against the requirements of LC 7.

### **Emergency preparedness**

LC 11 requires the licensee to make and implement adequate arrangements for dealing with any accident or emergency arising on the site and their effects. ONR inspectors observed a demonstration exercise of the DSRL emergency arrangements. The scenario involved a nuclear safety and security event which we believed to be both realistic and demanding. We considered that DSRL demonstrated that it could respond adequately to such an event and also provided observations where we considered there were learning opportunities.

### **Operating rules and operating instructions**

LC 23 requires that the licensee produces adequate safety case for any operations that might affect safety and identify the conditions and limits (operating rules) necessary in the interests of safety. LC 24 requires the licensee to ensure that any operations which might affect safety are carried out in accordance with written instructions (operating instructions).

The inspections were conducted in parallel and involved a general assessment of the implementation of the arrangements within the Waste and Fuel Cycle Area (FCA) Directorates and a more detailed assessment of the implementation of the arrangements within PFR. The inspections identified a clear demonstration of the line of sight of the limits and conditions identified within the safety cases through to the operating instructions and check sheets used on plant. There was also clear evidence of an effective management of change process where all operating instructions impacted by a change in limits and conditions are identified in the associated Dounreay Modification Report.

### **Periodic review**

LC 15 requires the licensee to have adequate arrangements for the systematic review and reassessment of safety cases. The inspectors focussed their inspection on the management of DSRL's LC15 review programme within the FCA, Waste Directorate and Reactors Directorate. There was clear evidence of lessons learned being identified and implemented within each area. ONR expects this learning to be captured within DSRL's corporate arrangements for LC15.

### **Fire safety**

An ONR specialist inspector undertook an inspection within the FCA to gain evidence of compliance with the Fire (Scotland) Act 2005 and the adequacy of DSRL's fire safety management arrangements. He considered that the fire safety arrangements in the areas inspected were adequate.

## **2.2 Visit by Chief Executive and Chief Nuclear Inspector**

The ONR Chief Executive and Chief Nuclear Inspector visited Dounreay on 10 May 2017 as part of a cross licensee programme. They visited Dounreay Fast Reactor (DFR), PFR and facilities within the FCA.

### 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.

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

### 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' (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
22 June 2017	Agreement	522	Agreement to Active Commissioning of the DFR Breeder Fuel Removal Project

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

### 5 NEWS FROM ONR

#### **ONR Chair awarded CBE**

- In the Queen's Birthday Honours announced in June, Chair of the Office for Nuclear Regulation, Nick Baldwin, was appointed a Commander of the Order of the British Empire for services to nuclear safety and security in Britain and to the charitable sector.

#### **Regulatory Research Report published**

- ONR has published its annual regulatory research report which describes the research activities we have conducted in the past year.

The report includes case studies showing how our research strategy has helped support our regulatory approach, and helps to inform the development of best practice. It can be viewed at [www.onr.org.uk/research](http://www.onr.org.uk/research)

## 6 CONTACTS

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