



# Office for Nuclear Regulation (ONR) Quarterly Site Report for Heysham Power Stations

Report for period 01 July 2017 – 30 September 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 Local Community Liaison Committee and are also available on the ONR website (<http://www.onr.org.uk/lc/>).

Site inspectors from ONR usually attend Heysham 1 and 2 Local Community Liaison Committee meetings and will respond to any questions raised there. Any person wishing to inquire about matters covered by this report should contact ONR.

## TABLE OF CONTENTS

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

## 1 INSPECTIONS

### 1.1 Dates of inspection

1. The ONR site inspectors made inspections on the following dates during the quarter:

#### Heysham 1

- 19 - 20 July 2017
- 8 - 10 August 2017
- 22 - 23 August 2017
- 5 - 7 September 2017
- 26 - 28 September 2017

#### Heysham 2

- 6 July
- 8 - 11 August
- 19 September
- 21 - 22 September

2. In addition technical specialists were involved in inspections on the following dates during the quarter:

#### Heysham 1

- 8 - 10 August 2017
- 22 - 23 August 2017
- 5 - 7 September 2017
- 27 - 28 September 2017

#### Heysham 2

- 6 - July 2017
- 8 - 11 August 2017
- 18 - 19 September 2017
- 20 - 22 September 2017
- 27 - September 2017

## 2 ROUTINE MATTERS

### 2.1 Inspections

3. 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).
4. 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.
5. In this period, the following routine inspections of (Heysham 1 and 2) covered the following:
- Licence condition 4 – Restrictions on nuclear matter
  - Licence condition 5 – Consignment of nuclear matter
  - Licence condition 7 – Incidents on site
  - Licence condition 11 – Emergency arrangements
  - Licence condition 12 – Suitability qualified and experienced persons
  - Licence condition 17 – Management systems
  - Licence condition 22 – Modification or experiment
  - Licence condition 23 – Operating rules
  - Licence condition 26 – Control and supervision of operations
  - Licence condition 27 – Safety mechanisms, devices and circuits
  - Licence condition 28 – Examination, inspection, maintenance and testing
  - Licence condition 32 – Accumulation of radwaste
  - Licence condition 34 – leakage and escape of radwaste and material
  - Licence condition 36 – Organisational capability
  - The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations
  - Ionising Radiation Regulations 1999
6. 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.
7. For both stations at Heysham, the key systems important to nuclear safety will be inspected against the requirements of the safety case. We plan to inspect all the safety significant systems over a five-year period. ONR considers that this will provide additional assurance that operations on the Heysham 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: Leakage and escape of radioactive material and radioactive waste

8. During the reporting period, the following safety related systems were inspected:

#### **Heysham 1**

- Fuel Assemblies

#### **Heysham 2**

- Solid and Gaseous Radwaste

9. In general, ONR judged the arrangements made and implemented by the site in response to safety requirements to be adequate in the areas inspected. In addition, the safety related systems inspected were considered to meet the requirements of the safety case.
10. However, where improvements were considered necessary, the licensee made satisfactory commitments to address the issues, and the site inspector will monitor progress during future visits. Where necessary, ONR will take formal regulatory enforcement action to ensure that appropriate remedial measures are implemented to reasonably practicable timescales.

## **2.2 Other work**

#### **Heysham 1**

11. Two themed inspections took place in this quarter. The first intervention theme was engineering governance which focused on the areas of engineering capability, compliance with company engineering standards and process, effectiveness of programme and project delivery, management of risks and escalation and coordination of engineering matters. The second intervention focused on control of operations and maintenance at Heysham 1 including processes for plant status control, work planning and work execution. Both of these involved teams of ONR inspectors undertaking a series of structured discussions with station personnel including department group heads and observing activities in the field undertaken and controlled by engineering, operations and maintenance technicians and supervisors. The licensee's arrangements were found to be satisfactory with no significant issues being raised. ONR also identified a number of areas of potential good practice which will be disseminated across the fleet for consideration.
12. During this period the ONR-nominated site and security inspectors for Heysham 1 and 2 attended the joint Heysham annual review of the site's emergency preparedness arrangements. This was judged to provide a comprehensive review of the licensee's implementation of arrangements with a good performance being reported for the period April 2016 – March 2017.
13. In September, ONR undertook a joint inspection with the Heysham 1 Environment Agency inspector. The inspection reviewed the station arrangements for transport, management of nuclear material and radioactive waste and environmental discharge permitting. The arrangements were found to be satisfactory with a minor regulatory issue being raised against identified potential improvements in the management of radioactive sludge waste.

#### **Heysham 2**

14. In this quarter, an intervention was undertaken to examine the implementation of the licensee's arrangements to manage tanks, vessels and buried systems as part of the site-wide corrosion management programme. The inspection team judged that the arrangements demonstrated by the licensee for the management of buried

pipework, tanks, vessels and general corrosion at Heysham 2 met the requirements of LC28 with no significant issues raised.

15. A system-based inspection was also undertaken which focused on solid and gaseous radwaste. This inspection was jointly attended by the Environment Agency inspector. This inspection did not identify any findings that could significantly undermine nuclear safety.
16. A themed inspection was undertaken on Heysham 2, which focused on engineering governance. This intervention involved a team of ONR inspectors undertaking inspection and assessment activities. A series of structured discussions with system engineers, engineering department group heads and managers. A number of Fuel Route personnel were also included. This intervention identified no significant shortfalls in the evaluation of Heysham 2's engineering governance arrangements

### 3 NON-ROUTINE MATTERS

#### Heysham 1

17. During this period, the Heysham 1 nominated site inspector reviewed a number of incidents that met the criteria for routine reporting to the ONR under the site's Licence Condition 7 arrangements. The site inspector sampled the station's follow up reports and corrective actions. From the evidence sampled, the inspector was satisfied that these incidents had been adequately investigated and appropriate event recovery actions identified. In addition the site inspector held meetings with the Heysham 1 independent nuclear assurance inspector and ONR issues follow-up meetings.

#### Heysham 2

18. During this period the Heysham 2 nominated site inspector held meetings with the Heysham 2 independent nuclear assurance inspector and Technical Support and Safety Manager In addition, the site inspector also observed an Operator Fundamentals training course.

### 4 REGULATORY ACTIVITY

19. 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			

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

## 5 NEWS FROM ONR

20. ONR Chief Nuclear Inspector, Dr Richard Savage, has announced he will be stepping down after two years in the role for family reasons. ONR has appointed Mark Foy, current Director of our Operating Facilities, as Acting Chief Nuclear Inspector (CNI) with effect from 30 October. ONR expects to appoint a permanent Chief Nuclear Inspector towards the end of 2017, subject to ministerial approval.
21. ONR will soon launch its new newsletter containing the latest news and developments from across the organisation. If you would like to receive this, please subscribe on the [onr website](#).

### Regulatory Research Report published

22. ONR has published its [annual regulatory research report](#) which describes the [research activities](#) we have conducted in the past year.
23. 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

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)

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, 2017

If you wish to reuse this information visit [www.onr.org.uk/copyright.htm](http://www.onr.org.uk/copyright.htm) for details.

Published 02/17

*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.*