



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

Report for period 01 January 2014 - 31 March 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. Reports are distributed quarterly to members of 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.

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1 INSPECTIONS

1.1 Dates of inspection

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

Heysham 1

- 21 January 2014
- 04, 12, 13, 14, 17, 19, 25, 26, 27 February 2014
- 10, 11, 25, 26 March 2014

Heysham 2

- 14, 21, 22, 28, 29 January 2014
- 04, 12, 13 February 2014
- 05, 06, 07, 18, 19 March 2014

2. In addition ONR specialist inspectors undertook inspections on the following dates during the quarter:

Heysham 1

- 27 February 2014
- 10, 11, 25, 26, 27 March 2014

Heysham 2

- 28, 29 January 2014
- 12, 13 February 2014
- 05, 06, 07 March 2014

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, routine inspections of (site/station) covered the following:

- examination, maintenance, inspection and testing;
- management of operations including control and supervision;
- staff training, qualifications and experience;

- modifications to plant, equipment and safety cases;
 - emergency preparedness;
 - fuelling machine;
 - incidents on the site;
 - radiological protection;
 - organisational changes;
 - operating instructions and operating rules
 - managing the risk from exposure to legionella bacteria
6. In addition, the following systems were inspected:
- emergency Equipment
 - fuelling machine
 - boiler feed
7. In general, ONR judged the arrangements made and implemented by the site in response to safety requirements to be adequate in the areas inspected. 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.

2.1.1 Heysham 1

Level 1, Demonstration Exercise

8. On the 14 February 2014, a team of ONR security and safety inspectors observed the on-site emergency response to a counter - terrorist event at the Heysham 1 power station. Overall, the exercise was considered an adequate performance of the Heysham security arrangements, however, as with all emergency exercises, some opportunities for improvement were identified, particularly around the integration of the site security team and the Civil Nuclear Constabulary. These areas of improvement will be monitored as part of normal business by the ONR security inspector.

Managing the Risk from Exposure to Legionella Bacteria

9. Following a review of Legionnaires' disease outbreaks over the past 10 years, from which cooling towers and evaporative condensers were identified as posing the greatest risk, HSE is undertaking a national programme of interventions looking at dutyholders management of the risk from exposure to Legionella bacteria. On the 27 February 2014, as part of this programme, specialist inspectors from ONR carried out an inspection of the evaporative condensers on the Heysham 1 site.
10. As a result of the inspection, ONR considered that the station is managing the risk from exposure to Legionella bacteria, however, a number of improvements were identified. The ONR specialist inspector has written to the station detailing these improvements, which relate to the risk assessment and associated control measures as well as staff training, and will be monitoring implementation of these improvements.

Routine Non-destructive testing of boilers

11. As reported in the last quarterly report, during the statutory outage of Heysham 1 Reactor 1, November 2013, an unexplained result was found during non-destructive testing of a section of one of the multiple boilers. NGL subsequently justified a period of six month operation of Reactor 1 with one of the boiler quadrants isolated. ONR has assessed the safety justification for this mode of operation and is content that Reactor 1 can operate safely for this limited period.

12. The reason for this anomaly has yet to be explained and in the intervening period, NGL has been developing testing techniques to explain this anomalous result to support ongoing operation of Reactor 1. Deployment of these testing techniques will involve reactor shutdown to allow entry to the reactor vessel. This is scheduled to take place before the end of the justified six months of operation with one of the boiler quadrants isolated. ONR has been closely monitoring EDF's development work to ensure that the scope of inspections are adequate to support the safety justification for future operation.

2.1.2 Heysham 2

Level 1, Demonstration Exercise

13. On 19 March 2014, a team of ONR inspectors observed the annual level 1 exercise "Caliban" at Heysham 2 power station. We deemed that exercise "Caliban" provided an adequate demonstration of the station emergency arrangements for the current year, and recognised the challenging nature of the scenario.
14. During the course of the exercise a number of opportunities for improvement were identified. ONR has written to NGL requesting confirmation of the action proposed, or already taken, to address the points raised by ONR, together with those of their own staff and independent assessment team. The Heysham 2 Nominated Site Inspector is to be advised of future shift exercises intended to test the implementation of the opportunities for improvement identified by those involved in the exercise.
15. ONR welcomed the fact that the joint debrief meeting provided a comprehensive exchange of information on the outcome from the exercise, which made a valuable contribution to the identification of potential improvement opportunities in respect of the emergency arrangements at Heysham 2 Power Station.

3 NON-ROUTINE MATTERS

16. 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.
17. There were no such matters or events of significance during the period.

4 REGULATORY ACTIVITY

18. ONR inspectors, specialist inspectors and HSE inspectors 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 LIs or Enforcement Notices were issued during the period.

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

5 NEWS FROM ONR

20. 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 is changing

21. 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.

6 CONTACTS

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