



Office for Nuclear Regulation (ONR) Quarterly Site Report for Wylfa Power Station

Report for period 1 January – 31 March 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 Wylfa Site Stakeholder Group and are also available on the ONR website (<http://www.onr.org.uk/lrc/>).

Site inspectors from ONR usually attend Wylfa 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 made inspections on the following dates during the quarter:

11, 12 and 13 January 2017
7, 8, 9, 10 and 11 February 2017
14, 15, 16, and 17 March 2017

ONR radiation protection inspector and mechanical engineering inspector made inspections on 13 February 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 (site/station) covered the following:

- examination, maintenance, inspection and testing;
- management of operations including control and supervision;
- modifications to plant, equipment and safety cases;
- incidents on the site;
- radiological protection;
- radioactive waste management
- emergency preparedness;
- decommissioning;

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.

Dry Store Cell 4 (DSC4) – Intermediate Level Waste (ILW) Recovery

Magnox Ltd is undertaking a programme of work to retrieve remaining ILW from Dry Store Cell 4 into engineered waste packages which are suitable for long term storage.

The programme is well developed and is approaching operational readiness. The retrieval equipment has been tested in an off-site test facility and is currently being installed and tested in DSC4. ONR is engaging closely with the project, with an inspection of the DSC4 facility in February 2017 and fortnightly teleconferences to discuss progress. ONR is expecting to conduct a readiness inspection towards the end of May 2017 to ensure that Magnox Ltd has satisfied itself that the project can proceed safely.

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.

Matters and events of particular note during the period were:

Pile Cap 5 inch Closure Lifting Grab Failure

Whilst carrying out a lift check on a 5" closure plug on Reactor 1 using a mechanical grab and a manual chain block suspended from the Pile Cap crane, the crane pendant 'hoist raise' button was inadvertently operated, which caused the engaged grab to snatch on the 5" plug lifting button resulting in the grab jaws breaking and the grab becoming detached from the plug. Lifting operations were immediately halted; the equipment was quarantined by the licensee and an embargo placed on 5" closure removal using pile cap crane. Magnox Ltd is undertaking an investigation. The incident did not present an immediate danger to nuclear safety and Magnox Ltd or disruption to defuelling activities. The ONR nominated site inspector will review the outcome of Magnox Ltd’s investigation with a view to confirming that any learning identified will be promulgated across the organisation to minimise the risk of similar incidents occurring.

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.

- The following LIs and Enforcement Notices have been issued during the period:

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

Date	Type	Ref No	Description
23/02/2017	Approval	LI 570	ONR has recently re-determined the off-site emergency planning zone that is required under the Radiation Emergency Preparedness and Public Information Regulations 2001 (REPPiR) to protect the public. Subsequently, the re-determined detailed emergency planning zone and public information zone for Wylfa has been incorporated into an off-site emergency plan by Anglesey County Council. As a consequence of the revision to the off-site emergency plan the Licensee has proposed changes to the Approved Wylfa Emergency Plan to reflect the REPPiR re-determination. ONR’s assessment of the altered Wylfa Emergency Plan confirms that it is consistent with

			the revised off-site emergency plan and that the Licensee has complied with its arrangements made under the site licence conditions. Furthermore the current submission does not make any significant changes to the emergency response functional capability and is solely an administrative change to reflect the alterations to the off-site Emergency Plan.
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5 NEWS FROM ONR

New reactors update:

- ONR received a request from Government to begin the Generic Design Assessment process for the UK HPR1000 in January. The reactor is now in Step 1 of the GDA process.
- On 30 March, ONR issued Design Acceptance Confirmation for the AP1000 nuclear reactor, designed by Westinghouse. The regulators required 51 GDA issues to be resolved before confirming suitability of the design.
- ONR granted its first consent for the start of construction at Hinkley Point C licensed site. The consent covers the placement of the structural concrete for the first nuclear safety-related structure at the site.
- On 31 March, Horizon Nuclear Power submitted its application for a nuclear site licence to build and operate two UK Advanced Boiling Water Reactors at Wylfa Newydd on Anglesey.

Quarterly statement of civil incidents

ONR published its quarterly statement of civil incidents reporting on the period October-December 2016. There was one incident which met ministerial reportable criteria at Dounreay involving contamination of workers' clothing. There was no detectable intake of radioactive material by any of the people involved in the incident.

ONR's Regulation Matters

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

6 CONTACTS

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