



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

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

Site inspectors from ONR usually attend Wylfa Site Stakeholder Group meetings and will respond to any questions raised there. Any person wishing to enquire about matters covered by this report should contact ONR.

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1 INSPECTIONS

1.1 Dates of inspection

The ONR site safety inspector for Wylfa power station carried out inspections on the following dates during the quarter:

20, 21, 22, 23 January 2014.

17, 18, 19, 20, 21 February 2014.

17, 18, 19, 20, 21 March 2014.

During the period, ONR specialist or project inspectors also carried out inspections relating to conventional and fire safety, site security, the periodic shutdown of reactor 1, and assessment of the station periodic safety review submitted to ONR in September 2013.

The ONR superintending inspector responsible for operating reactors, the site inspector and the project inspector assigned to Wylfa attended the reactor 1 start-up meeting on:

20 & 21 March 2014.

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 include monitoring licensee's activities 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 many of the conditions attached to the nuclear site licence in order to secure compliance with the law. Inspections seek to judge both the adequacy of the arrangements made and of their implementation.

During this period, routine inspections of Wylfa power station included the following areas:

incidents on the site;

staff training, qualifications and experience;

emergency preparedness;

periodic safety review;

periodic shutdown;

modifications to plant, equipment and safety cases;

examination, maintenance, inspection and testing;

operating rules and instructions;

management of operations including control and supervision;

radioactive waste management;

organisational capability; and,
conventional safety.

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 with any remaining work during future visits. Where necessary, ONR will take formal regulatory enforcement action to ensure that in the interests of safety appropriate remedial measures are implemented to reasonably practicable timescales.

Reactor 1 Start-up Meeting.

The ONR superintending inspector responsible for operating reactors, the site inspector and the project inspector assigned to Wylfa, attended the reactor 1 start-up meeting to discuss the station's case for returning reactor 1 to service, following the 2014 periodic shutdown for examination, inspection, maintenance, and testing. Prior to the meeting, an inspection of the plant was undertaken with members of the station management team, the company site inspector, and two safety representatives. The inspection did not find any matters that could affect the return to service of reactor 1, although the station has agreed to address areas for improvement that were identified. The meeting considered the station case for restart of reactor 1 and identified a number of actions that must be complete before ONR could grant consent for start-up of the reactor. The case presented by the Station Director was independently supported by the company site inspector assigned to the Wylfa site. The meeting provided the opportunity to evaluate the station's case for start-up of reactor 1, and identify work that needed to be complete before return to service.

Following the meeting, and after confirmation that the necessary work had been completed or was underway, ONR granted Consent for the licensee to start-up reactor 1 following the periodic shutdown. Subsequently return to service of the reactor has been delayed by work required to address issues that emerged during the process of starting-up the reactor, which is being controlled under the licensee's established arrangements and monitored by ONR. An update on progress to return the reactor to service will be provided in a future report to the Wylfa SSG, as appropriate.

2.2 Safety System Inspections

ONR includes inspections of the systems that contribute to the safety of operating reactors in addition to compliance inspections based on the conditions attached to the nuclear site licence. The nuclear site licence requires that all licensed sites must have a safety case in respect of any operation which may affect safety. For the Magnox reactor that remains in operation at Wylfa power station, 30 systems have been identified to provide the basis for inspecting safety systems to ensure they meet the claims made upon them by the safety case. The intention is to inspect systematically over a five year cycle all of the safety related systems identified for the site. ONR considers that this approach will provide the necessary level of assurance that the requirements of the safety case are met and the site is being operated safely.

This quarter the safety systems inspected were: the essential electrical system, and the pre-stressed concrete pressure vessel. On the basis of the inspections carried-out, the systems were deemed to be operated and maintained in accordance with the requirements of the station safety case. Where areas for improvement were identified, the station undertook to take appropriate action to address them. ONR will monitor progress to complete any agreed work.

Further details of ONR's system inspections at Wylfa power station and other nuclear licensed sites can be found at: www.hse.gov.uk/nuclear/intervention-reports/index.htm .

2.3 Other work

The nominated site inspector attended a meeting of the Wylfa site stakeholder group. The meeting provided an opportunity for ONR to respond to questions concerning the safety regulation of Wylfa power station.

The nominated site inspector attended a meeting of the station emergency planning consultative committee. The meeting provided an opportunity for ONR to observe the business of the meeting, and answer questions relating to regulation of emergency arrangements at Wylfa power station.

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 are reported below:

Work on the Reactor Building Roof.

The station notified ONR of an event under the arrangements for incidents occurring on the site, where they became aware that conditions during the outage on the reactor building roof required radiation protection controls to be in place to restrict potential exposure to workers in that location. On realising the circumstances, the station halted the work on the roof until appropriate safety measures were put in place to bring the work into compliance with the established arrangements to protect workers under IRR99. The station has investigated the incident and their assessment of the consequence of the event is that affected persons may have incurred a dose uptake that was not controlled in accordance with the local radiological safety rules, although the doses estimated by the station are comparatively low. While the licensee's response to the incident was appropriate under the licence conditions, the event challenged the arrangements to provide suitable radiological protection provisions to workers. Therefore, ONR is considering the circumstances of this case to identify an appropriate regulatory response, and an update on the action taken will be provided in a future report to the Wylfa SSG, as appropriate.

4 REGULATORY ACTIVITY

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.

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

Table 1
Licence Instruments and Enforcement Notices Issued by ONR relating to this period

Date	Type	Ref No	Description
3/2/2014	Agreement	LI 559	Agreement to changes to the Magnox Limited Parent Body Organisation.
11/4/2014	Consent	LI 560	Consent to start-up reactor 1 after its 2014 periodic

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

5 NEWS FROM ONR

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. For the latest news and updates from ONR visit the website (<http://www.onr.org.uk/index.htm>), and sign up for our ebulletin (<http://www.onr.org.uk/ebulletin/index.htm>).

ONR is changing

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; please see above for links to further information.

6 CONTACTS

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