



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

Report for period 1 October – 31 December 2016

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:

5, 6 and 7 October 2016

14, 15, 16, 17 and 18 November 2016

ONR radiation protection inspectors made inspections on 1 and 2 November 2016.

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;
- staff training, qualifications and experience;
- modifications to plant, equipment and safety cases;
- incidents on the site;
- radiological protection;
- industrial 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 during future visits. Where necessary, ONR will take formal regulatory enforcement action to ensure that appropriate remedial measures are implemented to reasonably practicable timescales.

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 defuelling and decommissioning reactors a potential 15 systems have been identified to provide the basis for inspecting safety

systems to ensure they meet the claims made on 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 mechanical aspects of nuclear lifting and handling systems. On the basis of the inspections, 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, station undertook to take appropriate action to address them. ONR will monitor progress to complete the agreed work.

Radiation Protection Inspection

The intervention was conducted principally under regulation 8, 'Restriction of Exposure', of the Ionising Radiations Regulations 1999. To ensure consistency with previous inspections, the inspection was conducted using a standard questionnaire and follow up face-to-face question and answer session with representatives at Wylfa. During the intervention ONR inspected the arrangements for controlling radiation exposure by targeting a number of areas including reactor 1 and 2 pile cap area, plant rooms, offices and radioactive waste storage.

Compliance with the Ionising Radiation Regulation 1999 was judged to be of an adequate standard with some opportunities for further improvement identified which were discussed and agreed with the licensee.

2.2 Other work

A meeting between ONR, Natural Resource Wales (NRW), Magnox Ltd and Horizon Nuclear was attended on 19 December 2016. The purpose of the meeting was to discuss Horizon Nuclear's anticipated requirements for use of a number of areas of the Magnox Ltd licensed site during the construction phase of its reactors. It was concluded that the most appropriate mechanism for providing access would be through leasing the required areas by Magnox Ltd under its site licence. The regulators asked Horizon Nuclear to work with Magnox Ltd and provide, by 31 March 2016, an integrated programme for implementation of the above proposals to include milestone dates for issue of leases, any EPR changes and security plan changes for both sites.

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:

Lighting and Small Power (L&SP) Fuse boards

Following the non-routine matter relating to incorrectly rated fuses in Red Spot Fuse boards supporting lighting and small power (L&SP) systems, reported Quarterly Site Report for Quarter 1, Magnox Ltd committed to undertake a comprehensive inspection of all L&SP fuse boards with a view to completion by 31 October 2016.

On 27 October 2016 Magnox Ltd informed ONR that its inspections of L&SP fuse boards had fallen behind schedule, with inspections of approximately 70% of fuse boards having been completed. It also informed ONR that two further instances of fuses linked out by pieces of wire had been discovered, having identified a previous similar occurrence earlier in its inspection programme. ONR considered this situation against its Enforcement Management Model taking into account Magnox Ltd's proposals to address the remaining inspection programme by mid-December 2016 and concluded that regulatory action was warranted under the Electricity at Work Regulations 1989, Regulation 4(2), which states that:

“as may be necessary to prevent danger, all systems shall be maintained so as to prevent, so far as is reasonably practicable, such danger”.

During the enforcement consultation Magnox Ltd:

- Provided assurance that the remedial maintenance with respect to the L&SP fuse boards and incorrect fuses has been addressed by mid-November.
- Confirmed that work to prevent a recurrence is being initiated to ensure that inspections will be undertaken on a suitable frequency through site maintenance arrangements and is expected to be completed by the end of December 2017.
- Agreed to write to ONR confirming that the inspection programme is complete and provide details of outstanding work required to minimise the risk of repeat events.

Given that Magnox Ltd has addressed the risk of harm through completion of the maintenance required, and is now compliant with the requirements of the relevant legislation, it was concluded that an enforcement letter confirming ONR’s expectations for continued compliance should be issued.

Anomaly in Identification of Wylfa Site Licence Boundary

During discussions with Horizon Nuclear Power Ltd regarding the possible transfer of parcels of NDA owned land to Horizon Nuclear Power Ltd, it became evident that there was a minor discrepancy in the Magnox Ltd Wylfa Site Licence Boundary as marked on a site drawing when compared to the legal documents. Further investigation revealed that the physical boundary does match the boundary recorded within the site licence. Magnox has since revised the site drawing to accurately reflect the site boundary.

Inoperability of Site Telephones

Two incidents occurred, one in November and another in December that resulted in the site being unable to dial external numbers from some locations during a two hour period. Magnox confirmed that these incidents could have impacted on its ability to deliver emergency response in the event of an incident. However, the site has diverse means of communication such that it was unlikely to have a significant impact. The immediate faults were promptly addressed and normal services restored within short timescales.

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.

- No LIs or Enforcement Notices were issued during the period.

5 NEWS FROM ONR

External Stakeholder events

On 1 November 2016, ONR held its Industry Conference in London, which brought together senior leaders from across the nuclear sector. We were pleased to welcome Baroness Neville-Rolfe DBE CMG, Minister of State at the Department for Business, Energy and Industrial Strategy (BEIS) to this year’s conference who delivered the [keynote speech](#). A special edition of [Regulation matters](#) has been published following the conference, which provides a summary of how the day unfolded. As part of our commitment to engage regularly

with all our stakeholder groups, we were pleased to welcome 17 representatives from a number of organisations to our ONR / NGO forum on 30 November in London. The event provided an opportunity for NGO representatives to meet with a number of senior ONR leaders, including our Chief Executive and Chief Nuclear Inspector, to discuss a number of priority issues.

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>).

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