



Office for Nuclear Regulation (ONR) Quarterly Site Report for Dungeness B

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

Site inspectors from ONR usually attend Dungeness 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 carried out inspections on the following dates during the quarter:

- 5 October
- 17-20 October
- 14-17 November
- 12-15 December

The site inspector was accompanied by other specialist ONR inspectors as follows:

- A mechanical engineering specialist inspector to support a system based inspection on boiler feed systems on 18-19 October.
- An electrical specialist inspector to support a system based inspection on electrical emergency generation systems on 14-15 December.
- An emergency preparedness and response specialist inspector in connection with an inspection of licence condition 11 – Emergency arrangements inspection in November.
- A project inspector in connection with the inspection of licence condition 22 – Modifications or experiment on existing plant in October.

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; and
- emergency preparedness.

Within this period ONR conducted two systems based inspections: Boiler Feed system and Electrical emergency generation. These systems have significant nuclear safety functions by

providing essential cooling and maintaining electrical supplies to the reactor. In both instances ONR judged that the systems adequately fulfilled the requirements of the safety case.

ONR conducted a licence condition compliance inspection relating to emergency arrangements and judged overall that the licensee has the ability to respond to an emergency effectively. The inspection noted that the emergency handbook detailing the licensee's emergency arrangements had been recently updated and this was considered to be suitable and sufficient. From a sample examination of training records, sites' emergency response personnel required to respond to such an incident were judged to be competent and ONR was satisfied that the arrangements were being tested routinely. However, ONR's inspection revealed that the licensee's emergency plan did not fully reflect the current organisational arrangements for emergency preparedness and response. ONR has written to the licensee seeking confirmation that the emergency plan will be revised; this will need to be submitted to ONR for its formal approval. Further ONR engagement with the licensee during this period has confirmed action is already being taken to review the emergency plan.

ONR undertook an inspection against the Pressure System Safety Regulations 2000. The inspection identified a number of areas for improvement and a shortfall against the approved code of practice. While this does not represent an imminent risk to safety, ONR has written to the licensee seeking assurance that the areas for improvements identified will be resolved in a timely manner. The licensee has made commitments to address these issues and is engaging with ONR to reach a satisfactory conclusion.

ONR also conducted routine licence compliance inspections relating to a number of nuclear licence conditions covering modification or experiment on existing plant; periodic shutdown and examination, inspection, maintenance and testing. Overall, ONR judged the arrangements made and implemented by the site in response to safety requirements to be adequate in the areas inspected. Where improvements were considered necessary, the licensee provided commitments to address the issues within appropriate timescales. The site inspector will monitor progress during future visits.

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:

The licensee's safety case remains valid for the operations being undertaken. However, during safety case development work, the licensee identified two safety case anomalies that met ONR's notification criteria. The anomalies have been considered as part of the licensee's safety case anomalies process. They are related to potential transients within the boiler feed system and the structural integrity claims associated with steam header welds. Interim justifications for continued operations have been established and ONR continues to engage with the licensee on this work as part of the forthcoming statutory outage.

ONR was notified in December of an event related to the licensee's management of the decay heat inventory planning tool for the spent fuel pond. Following a recent review of the pond inventory, the licensee identified a discrepancy whereby data from a recent channel defuel had not been included in the decay heat planning program used to manage the fuel inventory. This discrepancy has since been rectified and the licensee is formalising the arrangements for updating the decay heat planning program to ensure it is suitably robust. The safety case limits for decay heat within the fuel pond were not challenged at any time.

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

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.

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>).

CONTACTS

Office for Nuclear Regulation
Redgrave Court
Merton Road
Bootle
Merseyside
L20 7HS

website: www.onr.org.uk
email: ONREnquiries@onr.gov.uk

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