



**Office for Nuclear Regulation (ONR)
Site Report for
Rolls-Royce Marine Power Operations Limited
(RRMPOL) Raynesway, Derby
Nuclear Fuel Production Plant (NFPP) and Neptune
Reactor Licensed Sites**

Report for period 1 October to 31 December

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 Rolls-Royce Local Liaison Committee and are also available on the ONR website (<http://www.onr.org.uk/llic/>).

Site inspectors from ONR usually attend Rolls-Royce Local 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

ONR inspectors attended site on the following dates during the quarter:

- 2 October 2017
- 15 November 2017
- 23 November 2017
- 29 November 2017
- 5-6 December 2017
- 12 December 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 Rolls-Royce Marine Power Operations Limited (RRMPOL) Raynesway, Derby covered the following:

- demonstration of emergency arrangements via a site exercise; and
- periodic safety review.

Level 1 Demonstration Exercise

A team of ONR inspectors witnessed RRMPOL's annual level 1 demonstration emergency exercise 'FOSSA'. In response to the scenario, the site established its emergency organisation promptly and completed a muster of site personnel in a timely manner, correctly identifying the missing persons. Command and control was judged to be good with appropriate focus on protecting the public and site personnel. Emergency response teams successfully recovered and treated a number of casualties. ONR considered that the exercise mostly satisfied the requirements of an adequate demonstration of the implementation of RRMPOL's emergency arrangements. However, ONR identified a regulatory issue with respect to the handling of multiple contaminated casualties which RRMPOL is addressing. ONR will re-assess this aspect once the improvements have been implemented.

Inspection of arrangements for Periodic Review

The intervention consisted of a review of RRMPO's Periodic Review of Safety (PRS) arrangements to confirm that the licensee has adequate arrangements to capture, manage, track and implement shortfalls identified from their PRS for the Neptune Radiological Calibration Facility and Radioactive Components Facility. This included a visual inspection of the two facilities to observe the physical improvements implemented as a result of the PRS findings.

It was observed that RRMPO are making good progress with a number of improvements to the facilities and that they are well managed and in a good state of repair. ONR is satisfied that RRMPO has in place sufficient processes to manage the implementation of the identified PRS issues.

Regulatory meetings

ONR inspectors attended both level 1 and level 3 regulatory engagement meetings during this period with discussions covering RRMPO projects and ONR's strategy for regulatory engagement.

2.2 Other work

ONR has had a number of meetings with RRMPO, both on and off site regarding the ONR permissioning of the construction of new facilities on site.

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.

ONR Fire and Internal Hazards specialist inspectors visited the Raynesways site on 12 December following a review of the responses from across the Nuclear Industry to the Chief Nuclear Inspector's (CNI) letter concerning the use of combustible cladding material on buildings. RRMPO provided a presentation on their response in light of the Grenfell Tower fire and a plant walk down of the Chemical Plant was conducted. During this visit a number of actions were raised for RRMPO to address with regard to the use of internal cladding, control of penetrations in fire barriers and build-up of combustible materials. ONR has raised a regulatory issue to ensure that these actions are suitably addressed the most immediate of which have already been satisfactorily completed.

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

5.1 New nuclear power station design approved

The UK Advanced Boiling Water Reactor (UK ABWR), designed by Hitachi-GE, is suitable for construction in the UK, the regulators confirmed following completion of an in-depth assessment of the nuclear reactor design. The Office for Nuclear Regulation (ONR), the

Environment Agency and Natural Resources Wales, the regulators who undertake the Generic Design Assessment of new reactor designs, are satisfied that this reactor meets regulatory expectations on safety, security and environmental protection at this stage of the regulatory process.

ONR has issued a Design Acceptance Confirmation (DAC) and the environment agencies have issued a Statement of Design Acceptability (SoDA) to Hitachi-GE.

5.2 Step 2 of nuclear reactor assessment

We also announced on 16 November that we are progressing to the next phase of our assessment of General Nuclear System Ltd's UK HPR1000 reactor technology. This means we will now begin the technical assessment phase. Additionally, all members of the public can give their views and find out more information about the design by going to UKHPR 1000 website at www.ukhpr1000.com

5.3 ONR response to BEIS impact assessment

The Department for Business, Energy and Industrial Strategy (BEIS) has recently published its Impact Assessment of the Nuclear Safeguards' Bill and that makes reference to ONR's regulation. We contacted BEIS to clarify two points within the document as part of our ongoing constructive engagement with them to develop a domestic safeguards regime as part of exiting Euratom. The first is that ONR regulates the nuclear industry, it does not provide services to it. Secondly, the Government's policy has developed since the assessment was undertaken and the intention is to put in place a regulatory framework which is robust and as comprehensive as Euratom. This means that we are not in a position to identify potential efficiencies in our regulatory approach at this stage. As we support BEIS in its development of secondary legislation, we will provide advice to the Government to inform the anticipated impact assessment for nuclear safeguards regulation.

6 CONTACTS

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