



Office for Nuclear Regulation (ONR) Site Report for Torness Power Station

Report for period 1 April 2018 – 30 June 2018

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 of the Local Community Liaison Committee and are also available on the ONR website (<http://www.onr.org.uk/lc/>).

Site inspectors from ONR usually attend the Torness Local Community Liaison Committee 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

1. The ONR nominated site inspector made inspections on the following dates during the quarter:
 - 23-26 April 2018
 - 21-14 May 2018
 - 11-15 June 2018

2 ROUTINE MATTERS

2.1 Inspections

2. 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 (Fire Scotland) Act 2005
 - the Nuclear Industries Security Regulations 2003
3. The inspections entail monitoring the 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.
4. In this period, the following routine inspections were undertaken:
 - A systems-based inspection examining auxiliary cooling systems;
 - A Licence Condition Inspection of LC11 – Emergency Arrangements;
 - A systems-based inspection of seawater systems;
 - A review of the site's Fuel Route Improvement Plan, including inspection of LC28 – examination, inspection, maintenance and testing.

Licence Condition 11 - Emergency Arrangements

5. This inspection was to examine the adequacy of arrangements to deal with emergencies. It was carried out with reference to an Emergency Preparedness and Response Capability Map (EPRCM) which is a framework used to evaluate emergency planning and response. ONR plans to evaluate all areas of the EPRCM on each operating reactor site during a five year cycle.
6. In this inspection we examined the resources and capability for emergency preparedness and response at the Station, and the arrangements used to anticipate the range of potential events that should be planned for. We found arrangements for these to be adequate and made recommendations for further improvement, in particular consideration of greater diversity in exercise scenarios.

Licence Condition 28 - examination, inspection, maintenance and testing

7. ONR carried out a joint review, with EDF's Independent Nuclear Assurance team, of the Torness Fuel Route Improvement Plan. This plan aims to increase the reliability of Fuel Route including optimising arrangements under LC28 examination, inspection, maintenance and testing. We found that the implications for safety of the improvement plans were being adequately controlled

Systems-based inspections - auxiliary cooling systems

8. Systems-based inspections look at the key technical systems important to nuclear safety. These are inspected against the requirements of the safety case. We plan to inspect all the safety-significant systems over a five-year period, starting from April 2018. ONR considers that this will provide additional assurance that operations on the Torness site are safe. Each of these system inspections considers the relevant licence conditions below:
 - Licence condition 10: Training
 - Licence condition 23: Operating rules
 - Licence condition 24: Operating instructions
 - Licence condition 27: Safety mechanisms
 - Licence condition 28: Examination, inspection, maintenance and testing
 - Licence condition 34: Leakage and escape of radioactive material and radioactive waste
9. In the first of these inspections during this quarter we looked at the Auxiliary Cooling Systems (ACS). These provide cooling to various important plant on site, the term 'auxiliary' is used to distinguish these systems from the main reactor cooling. Our inspection found that these were operated and maintained so that the systems met the requirements of the safety case. No regulatory action was required.

Systems-based inspections – sea water systems

10. The second system-based inspection this quarter concerned sea-water systems. These remove heat from plant including some of the auxiliary cooling systems described above. Based on evidence sampled, in our opinion the systems are operated and maintained in accordance with the safety case.

2.2 Other work

11. The Torness nominated site inspector carried out an inspection of the Torness response to an EDF NGL fleet-wide instruction ('MEVL') concerning risks from work adjacent to fragile roofs. The general response was found to be adequate, and further appropriate precautions were identified on certain roofs that we sampled.
12. ONR inspectors met Torness management to discuss and agree the overall intentions of the statutory outage of Torness Unit 2 planned for the Autumn of 2018 under LC30 – shutdown of specified operations.

3 NON-ROUTINE MATTERS

13. Reactor 1 automatically tripped following a switching error during preparations for routine maintenance. The reactor shut down safely and minimum post-trip cooling was achieved. The site's investigation identified human factors behind the incident and is taking remedial action including reviewing the plant labelling and instructions related to key tasks that may cause reactor trips.

14. From the evidence sampled, the inspector was satisfied that this incident had been adequately investigated and appropriate event recovery actions identified. In addition the site inspector held meetings with the Torness independent nuclear assurance inspector and had ONR issues follow-up meetings.

4 REGULATORY ACTIVITY

15. 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.

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

Date	Type	Ref No	Description
N/A			No Licence Instruments or Enforcement Notices were issued during the period

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

5 NEWS FROM ONR

Stakeholder Engagement

16. On 9 May we held our ONR annual Industry Conference, with the theme - 'Public Safety – everyone's responsibility.' Delegates from more than 45 different organisations attended, and we were delighted that Richard Harrington, Parliamentary under Secretary of State, Minister for Business and Industry, was able to join us to deliver a keynote speech. The conference provided us with an opportunity to engage directly with senior representatives from across industry and government on a number of topical and strategic issues affecting the sector.
17. As part of our continued stakeholder engagement work, we welcomed finance professionals from a number of nuclear site licensees and dutyholders to seminars in London and Birmingham in June. Led by our Finance Director, Sarah High, we hosted the seminars to provide the industry with a better understanding of our charging methodology, the principles we apply, and how the charging process works. To accompany the seminars we have also published a new booklet – [How we charge for Nuclear Regulation](#) – which is available on our [website](#).
18. The next ONR/NGO engagement forum will take place on 11 October in London. This is a forum to discuss strategic, cross-cutting regulatory matters. Site specific matters are normally addressed via Site Stakeholder Groups. We are always keen to engage with a range of stakeholders and groups on nuclear safety and security issues, so if you do represent a nuclear-interest Non-Governmental Organisation, and are not already involved through our forum or via a Site Stakeholder Group,

then please get in touch with the ONR Communications team for further details, via contact@onr.gov.uk.

Regulatory News

19. A delegation from ONR, led by Chief Nuclear Inspector Mark Foy, supported the UK's contribution to the 6th Joint Convention review meeting in Vienna. Bringing together 78 countries from around the world, the Joint Convention on the Safety of Spent Fuel Management and the Safety of Radioactive Waste Management is the world's leading international forum for ensuring society and the environment are protected from hazards arising from spent fuel and radioactive waste. Further details can be found on the [IAEA website](#).
20. In August Mark Foy, will host a webinar on the outcome of the UK report to the joint convention. Further details on how to sign up for the webinar will be advertised on our [website](#) and social media channels over the coming weeks.
21. We have notified Sellafield Ltd of our intention to prosecute the company for offences under Section 2 (1) of the Health and Safety at Work etc. Act (1974). The charge relates to an incident on 5 February, 2017, at a facility which handles special nuclear materials, which resulted in personal contamination to a Sellafield Ltd employee. The decision to prosecute follows an ONR investigation into the incident
22. In May we awarded the contract for delivery of the UK Nuclear Safeguards Information Management and Reporting System (SIMRS) IT system to Axis 12 Ltd. The IT system is necessary for us to establish a domestic safeguards regime after the UK's withdrawal from the Euratom Treaty. The government has now launched the consultation on Nuclear Safeguards Regulation, further details can be found on our [website](#).

Corporate News

23. In May we published a self-assessment exercise to update on how well our activity currently aligns with the Regulators' Code, which came into effect in April 2014 to provide a framework for how regulators should engage with those they regulate. The full report is available on our [website](#).
24. In June we published our Annual Report and Accounts highlighting the extent of our regulatory activities. During the 17/18 year over 1,000 inspections were carried out across 36 licensed sites and transport dutyholders, ensuring the required standards of safety and security were met to protect the public and workers. The full report is available on our [website](#).
25. In July we published our second gender pay report. The organisation-wide results show that ONR has a mean gender pay gap of 35.2%, which is wider than last year, although it is broadly similar to the rest of the UK nuclear industry and anticipated given our workforce profile, and that of the industries from which we have historically recruited. ONR is committed to addressing this issue and continues to focus on improving diversity and inclusion.

26. Our Chief Executive, Adrienne Kelbie, has agreed a three-year contract extension, taking her term of employment to January 2022.

6 CONTACTS

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Published 08/18

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