



Office for Nuclear Regulation (ONR) Quarterly Site Report for Torness Power Stations

Report for period 1 January 2018 – 31 March 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:
 - 9-11 January 2018
 - 19-22 February 2018
 - 5-8 March 2018
 - 21-24 March 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 'no-break' electrical supplies;
 - A themed inspection examining Organisational Learning, including Licence Condition 7 – Incidents on the Site;
 - A Licence Condition Inspection of LC36 – Organisational Capability
 - A Systems-Based inspection of the Irradiated Fuel Dismantling Facility (IFDF);
 - Observation of a 'Level 1' emergency exercise, to assess adequacy of emergency arrangements made under Licence Condition 11.

Themed Inspection – Organisational Learning

5. During this inspection, the following themes were examined:
 - Self-Assessment and benchmarking;
 - Investigation and action close-out;
 - Cross fleet learning;
 - Effectiveness of trending;
 - Communication of operating experience (OPEX);
 - Learning Culture.

6. Based on our sample of interviews, observations and document reviews we judged that there are effective processes in place to manage and monitor organisational learning. The station was advised of some opportunities identified that could improve the effectiveness of its follow-up of actions.

Licence Condition 36(2) – Management of Organisational Change

7. The inspection of LC36 sampled a number of organisational changes, including review of relevant documents and an interview with the site process owner. On the basis of this sample the inspection found that implementation and governance of the arrangements was adequate, with some minor aspects of implementation to consider for improvement.

Licence Condition 11 - Emergency Arrangements

8. The demonstration exercise “Puffin” simulated the release of reactor coolant, injuries to staff, and a simultaneous fire. We judged the demonstration of emergency arrangements met regulatory expectations and has been rated as ‘Green – no formal action’ through the Integrated Intervention Strategy (IIS). There was evidence of improvement in some aspects since the previous ‘level 1’ in 2017, and we identified further opportunities for improvement which we communicated to Station and EDF corporate management.
9. Further inspections at Torness 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.. 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
10. During the reporting period, there were two safety related systems inspected:

No-Break Electrical Systems

11. The no break supply systems at Torness are provided in order that there is a reliable, on demand, power supply to a number of nuclear safety significant systems during post trip operation that cannot withstand a short interruption to their electrical power supplies. The inspection included examination of how these systems are operated and maintained to support the site’s safety case, and examination of the competence of staff involved in this. Good conditions were found, and no significant issues were identified.

Systems-Based Inspection of Irradiated Fuel Dismantling

12. This intervention evaluated the systems used by the site to dismantle spent fuel assemblies. We found generally good compliance. There was one agreed ‘Amber’ area for improvement which concerned an aspect of the system that records which staff carry out key maintenance tasks. The Station proposed means for addressing this.

2.2 Other work

13. During the period covered by this report there was an International Atomic Energy Agency (IAEA) Operational Safety Review Team (OSART) mission to Torness at the invitation of the UK Government. This was conducted by experts from IAEA and nuclear power stations from a number of countries. The ONR Site Inspector was one of the parties interviewed and we will have the opportunity to comment on the report, which will be published in due course.
14. The period also included the Torness Annual Review of Safety. This comprises a self-assessment by EDF Energy and the Station that is presented to ONR at a formal meeting on site. It included a summary view of the safety performance of the site, progress made and intentions for the future. We judged the review to be balanced and useful and it will help to inform our intervention plans.

3 NON-ROUTINE MATTERS

15. The Torness nominated site inspector reviews incidents that meet the criteria for routine reporting to ONR under the site's Licence Condition 7 arrangements. The site inspector samples the station's follow up reports and corrective actions. In this period the incidents included the following:
 - Reactor 2 shut down safely after being tripped automatically on 29/1/18, while back-up power systems were being reconnected following routine maintenance work.
 - Reactor 1 was manually shut down as a precaution, and according to procedures, on 1 March 2018 during high seas that were driving a very large amount of seaweed into the Cooling Water system. The Station acted appropriately and the reactor closed down without any safety issues.
16. From the evidence sampled, the inspector was satisfied that these incidents 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

17. 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 at <http://www.onr.org.uk/pars/>.

5 NEWS FROM ONR

In January, ONR received the results of its first external stakeholder survey, which was undertaken by YouGov on behalf of ONR. A broad range of stakeholders were invited to participate in an online survey, with 351 responses received. In addition to the online survey, a number of in depth interviews were also completed with stakeholders. While overall the results demonstrate ONR is seen as a high performing organisation with good levels of stakeholder confidence, there are areas where improvements can be made and we will be working with our divisions on those in the coming months. Further details about the survey results can be found in our March 2018 newsletter which is available on [ONR's website](#).

In February, ONR held its first webinar following the publication of the 'Guide to enabling regulation in practice.' Chief Nuclear Inspector, Mark Foy, and Deputy Chief Inspector, Mike Finnerty, were on hand to answer questions about the guide which has been designed to illustrate working examples of enabling regulation in practice. This is a new channel of communication for ONR and we'll be holding further webinars on different topics over the coming months. If you would like to join future webinars, please get in touch with the ONR Communications team via contact@onr.gov.uk

In March, ONR held the first of two meetings this year with representatives from across the NGO community. Held in Birmingham, the meeting was attended by 15 NGO representatives from 11 different organisations. Topics discussed included: domestic safeguards pending the withdrawal of the UK from Euratom; Emergency Planning Arrangements; and the ONR Stakeholder Survey results. The next meeting is scheduled to take place in October 2018. We are keen to increase the number of people engaging with ONR on nuclear safety and security issues and would like to invite members of SSGs to join our engagement programme. For more details please get in touch via contact@onr.gov.uk

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