



Office for Nuclear Regulation (ONR)

Site Report for Hartlepool Power Station

Report for period 1 October – 31 December 2020

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

Site inspectors from ONR usually attend Hartlepool Local Community Liaison Committee meetings where these reports are presented 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 Intervention

ONR inspectors undertook interventions relevant to Hartlepool Power Station on the following dates during the report period:

- 19 – 22nd October (remotely)
- 11th November (on site)
- 17-18th November (on site)
- 7-17th December (remotely)

Some interventions in this period were conducted remotely as a result of the coronavirus pandemic.

2 ROUTINE MATTERS

2.1 Compliance 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 etc. Act 1974 (HSWA74); and
- regulations made under HSWA74, for example the Ionising Radiations Regulations 2017 (IRR17) and the Management of Health and Safety at Work Regulations 1999 (MHSWR99).

The inspections entail monitoring the licensee's (EDF Energy Nuclear Generation Ltd, NGL) 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 Hartlepool Power Station covered the following:

- Licence Condition 7 - Incidents on site
- Licence Condition 11- Emergency Arrangements
- Licence Condition 28 - Examination, inspection, maintenance and testing

2.2 System Based Inspections (SBI)

SBIs consist of a series of inspections which are intended to establish that the basic elements of a site/facility safety case as implemented in Safety Systems and Structures (SSS) are fit for purpose and that they will fulfil their safety functional requirements. In an SBI, the adequacy of implementation of the licensee's arrangements for six Licence Conditions (LC) (10, 23, 24, 27, 28 & 34) is tested for the SSS chosen.

2.2.1 Fire Systems

This System Based Inspection was conducted remotely due to the COVID 19 restrictions implemented at Hartlepool in December. ONR utilised the station independent nuclear assurance to conduct system walk downs to support this remote inspection.

There were no concerns raised during the completed sessions that give concern to the ability of the system to meet the requirement of the safety case.

2.3 Other Matters

During the period the site inspector worked remotely to monitor the performance of the site by:

- Reviewing the open regulatory issues associated with Hartlepool with the Technical and Safety Support Manager (TSSM). Generally, good progress is being made on the majority of issues; some delays are evident with lower priority issues, but at present, we have no significant concern.
- Meeting with the TSSM during twice-weekly meetings, to discuss the station's response to, and the impact of, the coronavirus pandemic.
- Meeting on a weekly basis with the site-based Independent Nuclear Assurance team to ensure the internal regulator function remains effective and verifying information provided by the station.
- Increasing the number of meetings attended, including senior leadership team morning meetings (where the station's priorities are set), maintenance requirements review group meetings (where the impact of potential or actual staff shortfalls on safety-significant maintenance are managed) and operational focus meetings (where the day-to-day threats to safety and operation are discussed).

As a result of the above remote interactions, the site inspector considers that the site has managed its response to the pandemic during the period in a manner that, so far as is reasonably practicable, protected its own staff and ensured that there was no degradation in nuclear safety.

Members of the public, who would like further information on ONR's inspection activities during the reporting period, can view site Intervention Reports at www.onr.org.uk/intervention-records. Should you have any queries regarding our inspection activities, please email contact@onr.gov.uk.

3 NON-ROUTINE MATTERS

3.1 Events

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 note during the period were:

- INF 1 2020/635 – Secondary Shutdown System
On 10 September 2020 it was identified that there was an anomaly in the camera inspection records associated with the handover of the bottle bank SSD 21. The issue was discovered prior to the plant returning to service, with no resultant safety or compliance issues. A Significant Adverse Condition Investigation (SACI) was completed identifying actions to prevent recurrence.
- INF 1 2020/759 – Unit transformer 2A
On 10 November 2020 a weather shield detached from the dump condenser pressure relief stack and struck Unit Transformer 2A, damaging the installed fire system pipework and a number of cooling fins on the transformer. This resulted in a leak of oil from the radiator section of the transformer. ONR has maintained a close oversight of this event and have followed up with further regulatory requests for information. Station are proposing to rectify issues with the dump condenser isolation valves during upcoming refuelling outages in 2021.

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 take a range of enforcement actions, to include issuing an Enforcement Notice.

No licence instruments or enforcement notices were issued during the reporting period.

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

Date	Type	Ref No	Description
N/A			

5 NEWS FROM ONR

5.1.1 COVID-19

We are continuing to obtain assurance that nuclear site licensees and other dutyholders are adequately resourced to continue to safely and securely carry out their activities.

We remain satisfied with industry's response at this time and there has been no significant change to dutyholders' safety and security resilience.

As COVID-19 restrictions change, our focus is on the preparedness for the weeks and months ahead and maintaining safe and secure operations.

All licensed sites are required to determine minimum staffing levels necessary to ensure safe and secure operations and contingency arrangements in the event that these levels are not met. This condition is specifically designed to ensure that industry can adequately manage and control activities that could impact on nuclear safety and security under all foreseeable circumstances, including pandemics.

ONR staff continue to work at home, primarily. We have considered our priorities, deferred non-critical activities, and are carrying out as much of our work as possible via videoconference, phone and email.

We continue to inspect, assess and permission remotely where necessary to protect staff, workers on site, and the public around sites.

5.1.2 Enforcement action

In December, we [announced](#) that The Atomic Weapons Establishment (AWE) had been fined £660,000 after pleading guilty to an offence under Section 3 of the Health and Safety at Work etc. Act (1974).

AWE was also ordered to pay costs of £9,945.71 during a virtual hearing at High Wycombe Magistrates Court.

It followed an electrical incident on 20 June 2019 at the AWE Aldermaston site which resulted in a contractor narrowly avoiding injury when a flash over of electricity occurred from a 415V electrical source. The incident was a conventional health and safety matter and took place in a ‘non-nuclear’ building, so there was no radiological risk to workers or the public.

In October, we [notified](#) Sellafield Ltd that it would be prosecuted under Section 2 (1) of the Health and Safety at Work etc. Act (1974).

The charge related to an incident on Friday, 24 April 2020 at the Sellafield site where an employee sustained injuries while working on high voltage electrical equipment. This incident was also a conventional health and safety matter and there was no radiological risk to workers or the public.

The hearing took place at Carlisle Magistrates Court on 18 December 2020, where Sellafield Ltd was fined £320,000 and ordered to pay costs of £12,079.07 after pleading guilty to the offence.

Regulatory updates

In October, we [announced](#) an Information Exchange Arrangement (IEA) with the Canadian Nuclear Safety Commission (CNSC).

The IEA is a bilateral agreement between our two organisations which provides a framework for the sharing of information, experience, and good practice to enable both parties to learn from and train each other on technical regulatory issues. It also allows for more effective communication between the two regulators.

The agreement had already been used to develop a Memorandum of Cooperation (MoC) between ONR and the CNSC which allows the sharing of best practices and experience around reviewing advanced reactor and small modular reactor (SMR) technologies.

In November, our Chief Nuclear Inspector (CNI), Mark Foy, published his [annual report](#) detailing the performance of Great Britain’s nuclear industry during 2019/20.

The CNI reports he is satisfied that overall the nuclear industry has continued to meet the high standards of safety and security required to protect workers and the public.

In areas where dutyholders have fallen short of these standards, the CNI is satisfied that these facilities remain safe and that ONR has intervened in a proportionate manner to ensure plans are in place to improve performance.

In November, we also [announced](#) the appointment of a new member to the Chief Nuclear Inspector’s Independent Advisory Panel (IAP).

Chris McDonald has joined the panel, which was set up in in 2016 to provide independent advice on technically complex nuclear matters by engaging with industry experts to inform our regulatory strategies and approaches.

Chris has a wealth of experience in industrial strategy and manufacturing research. He has a degree in Chemical Engineering and has been the CEO of the Materials Processing Institute since it was founded in 2014. Chris also has a proven record in the areas of innovation and low-carbon energy which will be of great benefit to ONR.

In December, we became an [Affiliated Organisation](#) member of the Society for Radiological Protection (SRP).

We have actively participated and supported SRP for many decades. This affiliation formally recognises our involvement and contributions towards radiological protection and enhances the links between the two organisations.

In November, we played a [leading role](#) in the first ever virtual IRRS Mission.

The virtual mission to Lithuania was conducted via the IAEA's International Regulatory Review Service and explored the feasibility of using modern communications tools for future missions.

The mission was led by ONR's Technical Director Dr Anthony Hart and supported by Superintending Inspector Colin Tait. Other countries taking part in the mission included Canada, Pakistan, Finland and the Netherlands.

In December, we became **the** [UK's nuclear safeguards regulator](#), in charge of the domestic safeguards regime and operating the UK State System of Accountancy for, and Control of, Nuclear Materials (SSAC).

Following the end of the transition period as laid out in the Withdrawal Agreement, ONR assumed its responsibilities at 23.00 on Thursday 31 December 2020. This has been a major project for ONR, setting up a new team, new systems and new processes, led by Dr Mina Golshan.

Since being tasked by Government to establish a domestic safeguards regime after Brexit, we have developed a team of safeguards specialists, including inspectors and nuclear material accountants, and implemented a bespoke IT system, SIMRS (Safeguards Information Reporting and Management System).

Nuclear safeguards are measures to verify that countries comply with their international obligations not to use nuclear materials from their civil nuclear programmes to manufacture nuclear weapons.

The safeguards work remains a key priority for the organisation and sits in our Civil Nuclear Security and Safeguards Division.

5.1.3 Corporate updates

In October, we announced that Chief Executive Adrienne Kelbie had been appointed a [Commander of the Order of the British Empire](#) (CBE) in the Queen’s Birthday Honours List 2020 for services to the nuclear industry and to diversity and inclusion.

Adrienne said: “This honour is a tribute to the ONR team and all others who work tirelessly to create a more inclusive world and safe nuclear sector, as well as those on the long and sometimes arduous journey of leadership and self-development.

“Inclusion goes hand in hand with safety, because diverse teams are essential to improve decision making – therefore it’s a non-negotiable in nuclear. That’s why, as Chief Executive of ONR, I’ve been personally committed to visibly drive the inclusion agenda and encourage others to do so too.”

In December, we announced plans to [align our leadership structure](#) to other nuclear regulators around the world with a new combined post of Chief Nuclear Inspector/Chief Executive.

Chief Nuclear Inspector Mark Foy will take up the new combined post, subject to detailed government approvals, supported by current Deputy Chief Executive, Sarah High. A new senior regulatory role, Executive Director of Operations/Deputy Chief Inspector, will also be established. The exact timescales have yet to be confirmed, but the changes will come into effect later in 2021.

Under existing contractual arrangements, current Chief Executive Adrienne Kelbie CBE was always expected to step down as her extended term of office comes to an end in January 2022.

The change reflects ONR’s successful transition into a mature and high performing organisation since becoming an independent Public Corporation in 2014.

In December, we were delighted to announce that our Deputy Chief Inspector and Director of ONR’s Sellafield, Decommissioning, Fuel and Waste Division, Dr Mina Golshan, had been awarded a [Commander of the Order of the British Empire](#) (CBE) in the New Year’s Honours 2021, for ‘services to nuclear regulation’.

Mina said: “I am very grateful to have been awarded this honour. It reflects the work of many talented and dedicated professionals that I am lucky to work with. It also shows the significance of ONR’s role in securing safe nuclear operations for the protection and benefit of the society.”

6 CONTACTS

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Published 10/20

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