

Site Stakeholder Group Report

Peter Evans, Hinkley Point B Station Director
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1. Safety and station issues



Thank you for giving me the opportunity to present my report and operational update on behalf of the team at Hinkley Point B.

Last week we reached the twelfth anniversary since the power station's last Nuclear Reportable Event. This performance is comparable to some of the best performing nuclear power plants in the world, and we are all very proud. We have a healthy and open reporting culture, our decision making processes are robust, we have nurtured an environment where everybody is personally accountable for their actions, and we effectively embrace the use of organisational learning tools. These are just some of the reasons which have contributed to us reaching where we are today and achieving this world class level of performance.

We are also doing extremely well with our environmental and industrial safety performance, and I am pleased to report it is now over nine years since our last environmental event and over 18 months since our last lost time incident. Clearly again this is world class performance, and we will strive to maintain these high standards as we continue our journey to safety excellence.

Auditors from Lloyd's Register Quality Assurance (LRQA) completed their seventh annual LRQA surveillance at Hinkley Point B in August, and confirmed the station's certification continues against the management system standards for Quality (ISO 9001:2015), Environment (ISO 14001:2015), Occupational Health and Safety (OHSAS 18001:2007) and Asset Management (ISO 55001:2014).

At the time of writing this report, an international team of nuclear experts have just spent three weeks at the power station as part of a World Association of Nuclear Operators (WANO) routine peer review. The team of 30 experts, representing countries from all over the world, have assessed the station's performance against specified objectives and criteria. WANO was formed in 1989 to encourage nuclear operators worldwide to exchange operating experience in a culture of openness. A WANO peer review is conducted at each nuclear power plant every four years and identifies good practices and areas for improvement.

Since we last met, the Office for Nuclear Regulation (ONR) has prosecuted both EDF Energy Nuclear Generation Ltd and Doosan Babcock Ltd for an incident at the station in April 2017 when a Doosan colleague fell through a skylight while in the course of his duties. At Taunton Magistrates Court on 10 October we pleaded guilty to the charges, as did Doosan, under the Health & Safety at Work Act 1974, section 3 (1) and the Work at Height Regulations 2005, Regulation 4 (1) respectively. After considering the facts the judge decided it was in the public's interest to refer the case up to Taunton Crown Court for sentencing at a date still to be confirmed. Since the accident we have made a number of important improvements in how we safely work at height, both here at the power station

and throughout EDF Energy. We have introduced both physical and visual enhancements and we continue to reinforce the correct standards and behaviours. We have also successfully closed out the requirements of the associated improvement notice which was served upon us by ONR.

Both reactors have remained on line throughout the period and station output between 16 June to 17 October was 2.771 TWh (One terawatt equals 1,000,000 megawatts: one terawatt-hour represents one hour of electricity consumption at a constant rate of 1TW).

In September a team from Hinkley Point B met with the Training Standards Accreditation Board (TSAB) at The National College for Nuclear in Cannington, and presented 20 station training programmes for accreditation renewal. After two intense days of detailed discussions and reviewing evidence, I am pleased to report the independent board unanimously agreed to award continued accreditation in all of the 20 station training programmes presented. This is a great achievement for the station.

Last week I had the pleasure of welcoming EDF Energy's Chief Executive, Simone Rossi, to Hinkley Point B. While he was at the power station, he formally opened our new fire and smoke training facility. This new facility has been made from a mixture of new and recycled equipment and will support emergency scheme and breathing apparatus training. Site and plant familiarity has been built into the new facility's design, and it contains electrical panels, cubicles and switchboards, valves and actuators which were once in use at the power station.



Once again I have reminded station staff and contract partners about driving standards and behaviours and the importance of driving safely and appropriately at all times. We take safety and our responsibilities to the local community extremely seriously and we share your concerns about motorists speeding or driving inappropriately on local roads. If you see any Hinkley Point B workers driving inappropriately, please do let me know by contacting the station's community liaison officer, Dave Stokes, on 01278 654699 / dave.stokes@edf-energy.com.

2. Environmental update

The Environment Agency site inspector has visited Hinkley Point B throughout the period to complete themed inspections. These inspections have not raised any findings of significance. Small improvement opportunities have been identified and are being tracked and resolved as part of the station's action tracking process.

Radioactive gaseous and aqueous discharges arising from normal plant operations remain at levels well below those authorised by the Environment Agency.

On 13 September during planned routine maintenance activities in the Active Effluent Treatment Plant (AETP), a small quantity of tritiated water spilled into a local contained bund after a wrong pipe fitting was momentarily and mistakenly removed from a pump in the Tritiated Water Storage Tank (TWST) filtration system. As designed the plant automatically shut off as soon as the bund sump detected the water and the issue was immediately rectified. The working area was subsequently cordoned off to allow cleaning activities to take place. The station has completed a thorough investigation into the event, and has informed the Office for Nuclear Regulation (ONR) and the Environment Agency. This event did not represent a danger to human health or pose harm to the environment.

The radiation dose of each worker is assessed individually by an electronic personal dose meter. A computer database keeps records for each worker. Exposure is constantly monitored and ultimately compared with the levels specified in the Ionising Radiation Regulations (2017) which are the UK Health and Safety legislation that applies to work with radiation. During the reporting period the Collective Radiation Exposure (CRE) was below plan. Collective doses are pre-planned on expected work for each year based on scheduled maintenance, outages and routine operations. All work is fully reviewed and justified in order to ensure all doses received were ALARP (As Low As Reasonably Practicable). This involves justifying and optimising the dose, as well as remaining within those dose limits. Differences between the actual and planned dose can be down to a range of factors including changes to the work programme.

3. Emergency arrangements

During the period the station took part in two emergency exercises. The first on 27 July (Exercise *Boxer*) was assessed by peers from across the fleet and was deemed to be a good demonstration of our emergency arrangements. This exercise also showed that previously seen areas for improvement (AFIs) had either been closed or good progress was being made towards achieving this. The second exercise (*Beach*) was held on 5 September and was the annual Level 1 demonstration observed by ONR. The exercise was deemed an adequate demonstration of the site's emergency arrangements and compliance to site licence condition 11 (emergency arrangements), and the station was given a 'green' rating by ONR. We have one remaining exercise left in 2018, and this is our security demonstration to ONR on 28 November.

Since our last meeting, there have been two ambulances called to site for station workers who have felt unwell at the workplace. I am pleased to report both individuals have since made full recoveries. No other emergency services have attended site during the period.

4. Production statistics

For the period Saturday 16 June 2018 to Wednesday 17 October 2018:

TWh (terawatt-hour) Production:

- > Reactor 3 1.389
- > Reactor 4 1.383

Unit Capability Factor (% load factor) is based on a rated unit power (RUP) of 485 GNN (Gross Net Net) for reactor 3 and 480 GNN for reactor 4.

- > Reactor 3 97.7% excluding planned shutdowns and refuelling
- > Reactor 3 96.2% no allowance for planned events

- > Reactor 4 98.9% excluding planned shutdowns and refuelling
- > Reactor 4 96.8% no allowance for planned events

Number of channels re-fuelled on both units: 21 plus 7 shuffled channels.

Number of flasks despatched: 11

Source: station records.

5. Community relations

Hinkley Point Visitor Centre

Since opening in December 2012, we have welcomed nearly 90,000 people into our visitor centre, which is based in Bridgwater's Angel Place Shopping Centre. During that time, over 15,000 people have been taken on a guided tour of Hinkley Point B power station and over 5,000 people have been taken around the Hinkley Point C construction site.

The visitor centre is open six days a week, Monday to Friday 09:00 hours to 16:00 hours and on Saturdays between 09:00 hours and 13:00 hours. An EDF Energy customer services representative is also there every Wednesday answering customer queries.

To find out more information about the visitor centre or to book a tour of Hinkley Point B power station or the Hinkley Point C construction site, emails hinkleybtours@edf-energy.com or telephone 0800 096 9650.

Sponsorship and Donations

EDF Energy continues to support local charities and organisations. Since the last meeting, beneficiaries have included:-

- > Berrow Junior FC
- > Bridgwater Senior Citizens Forum
- > Eastover Park Bowls Club
- > Little Saints, Williton
- > Nether Stowey and District Royal British Legion
- > Somerset Parent Carer Council

Site visits

Since the last meeting the station has hosted a variety of organised external group visits, including representatives from Beaminster School, Georgia Spa Probus Club (Cheltenham), NHS Client Support Group, Portsmouth University, Robert Blake Science College, Somerset Community Volunteers Group, The Royal Navy, Wessex Water, Weston College, UK Tesla Owners Club, Writhlington School (Frome), Yew Wah International Foundation and Young Generation Network. Each group received presentations on EDF Energy, Hinkley Point B and nuclear power at the visitor centre before being taken on a guided tour of the site.

During the period, we also welcomed a number of dignitaries including, the Rt Hon Claire Perry, MP, Minister of State (Business, Energy and Industrial Strategy, the Rt Hon Ian Liddell-Grainger, MP for Bridgwater and West Somerset, and Simone Rossi, EDF Energy's Chief Executive.

UK Tesla Owners Club visit Hinkley Point B

Innovation and sustainability were the two main topics for discussion after a cavalcade of 21 Tesla cars and 37 members of the UK Tesla Owners Club descended upon Hinkley Point B. Tesla-owners came from all corners of the UK to take part in an organised visit, with the furthest travelling from Dunfermline in Scotland.

While at the station, the group were also given a comprehensive overview of the station's various sustainability initiatives, which include using marine waste for anaerobic digestion and personal protective equipment recycling, before embarking on a tour. The day culminated with a visit to the Hinkley Point C construction site.

Shortly after the visit EDF Energy announced a new partnership to advance low carbon transport with Nissan.

Charity of the Year – Breast Cancer Now

Since the company launched its three year charity partnership with Breast Cancer Now in October 2016, Hinkley Point B staff and contract partners have raised over £20,000 for the popular charity. Some of the charity fundraising activities power station workers have taken part in during the reporting period include the Hinkley Point Fun Run, charity bike rides and a Hinkley Point B vs Hinkley Point C football match, to name just a few.

Companywide an overall total of £313,800 has been raised through fundraising activities, and this includes a £50,000 match funding donation by EDF Energy. Initially the overall target was £450,000 for the three year partnership, but it's likely much more will be raised.

Hinkley Point fun run and family day

Staff and contract partners took part in the annual Hinkley Point fun run on 1 July and raised thousands of pounds for charity. Over 30 competitors from across the three Hinkley sites (A, B and C) completed the 6.4 mile route from Cannington to Hinkley Point, and helped maintain the special tradition of the fun run which started back in the late 1970s. Some runners completed the course in fancy dress, including myself. The competitors raised hundreds of pounds for good causes and this has been shared between EDF Energy's charity partner, Breast Cancer Now, and Southmead Hospital. After the fun run, the three Hinkley Point sites held a very successful joint family day where tours were held of Hinkley Point A, B and C.

6. Staff

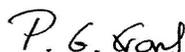
- > 526 full-time EDF Energy employees
- > 14 apprentices (13 x engineering maintenance and 1 x business)
- > 200 full-time contract staff
- > 1 industrial placement student

7. Company news

Two ground breaking projects opened by EDF Energy

Jean-Bernard Lévy, the EDF Group Chairman and Chief Executive Officer, Bruno Bensasson, the Group Executive Vice-President in charge of Renewable Energies and Simone Rossi, EDF Energy Chief Executive Officer officially opened two ground-breaking projects in the United Kingdom: the Blyth off-shore wind farm and the West Burton B battery storage facility. Blyth off-shore wind farm, Northumberland, is composed of five turbines with total generation capacity of 41.5 MW. Several innovations have been built in to contribute to enhanced competitiveness of off-shore wind power. Blyth is the first off-shore wind farm to use float and submerge technology. The wind turbines are supported with gravity-based foundations transported by floating, which reduces the installation costs.

A 49 MW battery storage facility located at West Burton B power station is the largest project in the new frequency control system which will be deployed across the UK to improve stability of the national grid. Against the backdrop of extensive development of renewable energy generation and the closure of ageing power plants, battery storage technology supports stability of the grid and can be used for rapid response to fluctuations in grid frequency.



Peter Evans