

Site Stakeholder Group

Hunterston B Station Director's Report

Period: May 2022 to July 2022

1. Defueling, transfer and deconstruction

As outlined in the last SSG report, active defueling is now underway with a new working rhythm being developed on the removal of spent fuel stringers. Defueling activities at the site are progressing well and the focus is on progressing the operational defueling campaign on Reactor 3 in a safe, reliable and efficient manner.

In parallel with operational defueling on Reactor 3, the pre-defueling outage on Reactor 4 is progressing in line with station plans.

Over the next few years, EDF will be working closely with the Nuclear Decommissioning Authority and Magnox to develop proposals for decommissioning. Decommissioning will involve dismantling and demolition of plant and buildings on the Hunterston B site. EDF is holding a public consultation from 8 August to 19 September 2022, seeking the public's views to help inform the decommissioning proposals. As well as an online virtual exhibition people are being offered the opportunity to feedback views at a series of public events.

We have established a Transfer and Deconstruction Preparation Organisation on site. The team will continue the early Deconstruction preparations, including planning and consent, whilst also developing a Site Transition plan that will move the site from operational defueling to deconstruction.

2. Safety and Environment

Pandemic Response arrangements in response to COVID-19

EDF's sites have a six-stage tiered approach which is based on the Covid-19 infection rate on site and in the surrounding local area, with 0 being the lowest risk and 5 the highest. Each of the risk levels has a suite of actions in place to help protect the site.

The risk status of our site is monitored daily by the Outbreak Management Team (OMT), which includes our company doctors.

On Monday 9 May, following consultation with the Fleet Incident Management Team, Hunterston B moved from Risk Rating 1 to Risk Rating 0.

The station is continuously reviewing these arrangements in the event escalation is required.

Station Industrial Safety Performance

Safety performance during the reporting period has been good and our Total Recordable Incident Rate (TRIR) sits at 0.

Team Monthly safety meetings continue to be a success with topics including PPE (Personal Protective Equipment), outage safety refresh and risk assessment generating good discussion.

Industrial Safety Engineers have been busy completing confined spaces & testing of pressure systems, vessels and pipework compliance evaluations in line with the fleet programme.

In May, we welcomed a safety assist team to Hunterston B which consisted of a team of eight people including representatives from EDF Renewables, Customers, Corporate and contract partners. The assist was interactive, focusing on "walk and talk" with high level of engagement with safety representatives and a wide cross section of staff and contract partner groups.

There were many positive observations made, the team were particularly impressed with:

- Generator Transformer project CDM standards
- Industrial Safety Action Team content and engagement
- Fleet leading building fabric improvement programme
- The passion to succeed demonstrated at the Station

Our building and fabric group continue to meet on a fortnightly basis to ensure that improvements to buildings are being carried out in a timely manner.

The outage safety team have carried out various walk downs and have a regular visible presence on site, they also provide advice and support to EDF / contract partners on all matters relating to health & safety. There is also an opportunity for the management team to join in these walks to engage with contract partners and EDF staff while carrying out jobs at the work site.

The regulator, the ONR, has had positive discussions with the Quality Management Group Head and the Maintenance Manager on the progress we continue to make on machine guards and asbestos improvement plans. The ONR are due to re-visit site in December for their annual site visit.

In July, a safety document was marked complete without a section of pipework being reconnected on the Reactor 4 Main Gas Relief Valves. The work was associated with the pre-defueling outage and the failure to reconnect the pipework as part of the safety document work scope was identified during de-isolation and plant alignment checks by the Operations team.

While there were no actual safety consequences, it was categorised as a safety rules event as the safety document was closed without all work being completed. A full investigation has taken place to understand the causes and place actions to take the learning. Work was subsequently completed successfully to reconnect the pipework before progressing with the plant alignment.

Radiological Protection

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 continuously, monitored and ultimately compared with the levels specified in the Ionising Radiations 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 (see table below). Collective doses are pre-planned for each year based on scheduled maintenance, outages and routine operations. A breakdown of dose received is shown below (along with a comparison of relevant dose statistics).

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, development of new techniques for carrying out work that will result in a lower dose and the deployment of new equipment. In this case, the reduced work programme resulted in the actual dose being lower than the predicted.

There were no reportable radiological protection events during this reporting period.

| Radiation Dose to workers (February 2022 - April 2022) | |
|---|------------|
| Planned collective dose | 9.5man.mSv |

| | | |
|-------------------------|-----------------|-------------------------|
| Actual collective dose | .3man.mSv | |
| | Employee | Contract Partner |
| Total Dose | 4.80man.mSv | 2.50man.mSv |
| Average individual dose | 0.01mSv | 0.01mSv |
| Highest individual dose | 0.44mSv | 0.72mSv |
| Individuals | 351 | 324 |

| | | | | | |
|-------------|----------------------|---------|----------------------------------|-----------------------------------|---|
| Chest X-ray | Transatlantic Flight | CT scan | Average UK annual dose to public | EDF Energy Dose Restriction Level | UK legal dose limit for radiation workers |
| 0.014mSv | 0.08mSv | 2.0mSv | 2.6mSv | 10mSv | 20mSv |

Explanatory notes:

- mSv: milliSieverts (SI unit of dose received by an individual)
- man.mSv: The collective dose for a group of workers (i.e. the total of the doses received by each member of a group).

Environmental Safety

There have been no significant environmental events in the period May 2022 to July 2022.

Work is in progress to repair a slow, low-level leak of oil from a transformer cable. The oil, which is used for insulation in the cable, is light, clear and fully biodegradable. The cable has been taken out of service to allow the identification of the leak site and a repair is planned once the leak site has been identified. SEPA have been kept fully informed and have been very supportive.

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

The programme of off-site environmental monitoring and radiation surveys in the district has continued throughout the period and demonstrates that the radiological discharges from the station have a negligible impact on the local environment. Reports are provided monthly and quarterly to SEPA, detailing the samples and results of analysis performed.

Work to process and package solid low level wastes has continued in the period as part of normal operations and consignments have been made to our regular partners.

Emergency Arrangements

There have been no issues with the emergency arrangements during this reporting period. Hunterston B continues to work closely with Fleet Emergency Preparedness Group as the lead defueling site. As a group, we have been working on developing defueling scenarios and fault events that will exercise our Emergency Arrangements.

During the reporting period we completed two demonstration exercises with oversight from the ONR on areas of site security and fault scenarios. This included the first exercise to be run on a defueling site which provided a positive learning experience. We now continue to work with the ONR to demonstrate how we have embedded this learning and addressed areas for improvement. We are also sharing this learning with the rest of the fleet as part of our 'lead and learn' responsibilities.

We have commenced our planned 2022 shift exercise season to allow existing role holders and trainees to exercise their roles in defueling based scenarios.

Fleet Emergency Preparedness staff are liaising with external stakeholders on changes to the emergency arrangements based upon Hunterston B's move into defueling. Our updated hazard evaluation has been approved by the ONR and the Consequences Report has been provided to the local authority.

3. People

In June, Origen Financial Services ran a day Pre-Retirement Seminar with two of Origen's specialist 'Planning for Retirement' advisers providing the presentations and supported by Clive Pothecary (Pension Liaison Manager) and Lindsay McDonald (Redeployment Consultant). Origen is a leading adviser firm in the UK, providing presentations and seminars covering all areas of financial planning for the employees of major employers. Those who attended learnt about the key areas for consideration from both a financial planning side, pre and post retirement and also from a 'life after retirement' perspective.

There have been some management team changes due to Andy Dalling becoming the Transfer and Deconstruction Preparation Manager. James Purss has been successfully appointed to the Engineering and PI Manager position. James was previously an Engineering Group Head at Hunterston, and spent a period as Acting Engineering Manager before taking up a fleet role a few years ago. James has returned to Hunterston and completed a handover with Andy Dalling and has been in position from July.

4. Company Update

Hunterston B power station honoured for contribution to energy security

Hunterston B, and all those who have worked there, has been recognised for its contribution to Scotland's energy landscape.

The North Ayrshire site won the "Exceptional Contribution to the Energy Security" at the Scottish Engineering Awards in Glasgow.

Over the course of its 46 year generating life, Hunterston B produced enough zero-carbon electricity to power every home in Scotland for 31 years and avoided more than 100m tonnes of carbon dioxide from entering the atmosphere.



Station Director, Joe Struthers picked up the award on behalf of the station and said, "On behalf of everyone associated with Hunterston B, past and present, I am proud to accept this award. We are honoured to be recognised by Scottish Engineering for our contribution to energy security.

"The end of generation at Hunterston B was tinged with sadness for many of us, but it also provided a great opportunity for us to respect the past and reflect

on our exceptional achievements during 46 years of safe and reliable generation. Looking

forward, we are embracing the future, and our fantastic people have already started work on our next mission, safely refuelling the reactors, and dispatching flasks to Sellafield.”

The Scottish Engineering awards were launched nearly 30 years ago to celebrate the best home-grown Scottish talent and to shine a spotlight on inspiring individuals and exceptional organisations, which have displayed the highest level of excellence within the engineering and manufacturing sectors.

Hunterston B power station marks Queen’s Platinum Jubilee

An oak tree has been planted next to Hunterston B Power Station to mark the Queen’s Platinum Jubilee.

The sessile oak sapling was planted as part of the Queen’s Green Canopy celebration.

The initiative was created to mark Her Majesty’s Platinum Jubilee in 2022 and invites people from across the United Kingdom to ‘Plant a Tree for the Jubilee’.

Hunterston B’s Station Director, Joe Struthers, said: “Oak trees, when mature, provide habitat for a vast array of wildlife. Oaks are also thought to support more life than any other native tree in the UK.

“When we heard about the Queen’s Green Canopy initiative we wanted to be involved and do our bit as a station to mark the anniversary.”

EDF is planting one tree at each site across the fleet to mark this special occasion and to benefit nature for decades to come.

The Queen’s Green Canopy initiative will dedicate a network of 70 Ancient Woodlands and 70 trees across the United Kingdom to mark Her Majesty’s 70 years of dedicated service.

Hunterston B makes £10k end of generation donation to charities

Two Ayrshire-based charities have benefited from Hunterston B’s end of generation milestone.

North Ayrshire Foodbank and Crosshouse Children’s Fund received £2,000 each following a charity prize draw arranged to mark the station’s 46 years of operation.

The station stopped operating for the final time in January after producing enough zero carbon electricity to power every home in Scotland for 31 years.

As part of the end of generation events staff were entered into a lucky draw with a difference. Rather than the usual prizes, one name was randomly selected each day for a week and the member of staff was invited to choose a charity to receive a £2,000 donation.

In total, £10,000 has been gifted to charities. John Bell selected North Ayrshire Foodbank; John Miller asked for his donation to go to Alzheimer Scotland – Action on Dementia; David McLelland chose Macmillan Cancer Support; Omar Al-Omari donated to The Children’s Air Ambulance and Mark McNaughton gifted the money to Crosshouse Children’s Fund.

Station Director, Joe Struthers said: “The end of generation was an important milestone for people at the site. On the day, staff were able to watch the reactor coming offline and lunch was laid on but we also wanted to do something that looked beyond the boundary fence.

“We know lots of charities have struggled over the past couple of years due to Covid-19 impacting fundraising activities so we thought this would be a fitting way to support some of our local charities while marking our event.”

Craig Crosthwaite from the North Ayrshire Foodbank said: “We would like to thank John for honouring the work we do getting food to struggling households by nominating the foodbank.

“The average cost of a food-box is £12 so this money will equate to 166 parcels. The people of North Ayrshire have been incredibly supportive over our 10 years of service and we thank Hunterston B for being part of the caring and compassionate community ensuring no household goes without food.”

The site also held a gate collection to raise money for the Disasters Emergency Committee appeal for Ukraine. Generous staff donated £2,900, which will go towards supporting humanitarian efforts during the conflict.

A new dawn as Hinkley Point B ends generation

After more than 46 years generating home grown zero-carbon electricity, Somerset powerhouse Hinkley Point B has today switched off its second reactor.



The station first produced power when Abba’s Mamma Mia was at the top of the charts in 1976. Today it ends its run as the most productive nuclear power station the country has ever had.

Mike Davies, Station Director of Hinkley Point B, said: “This is a day of mixed emotions for all of us. We are justifiably proud of everything this station and its workforce have given to Somerset, and indeed the country, over decades of

operations. The huge amount of electricity we’ve produced could have met the needs of every home in the South West for 33 years.

“There is much to be proud of. This tiny corner of Somerset has produced huge amounts of zero-carbon electricity, supported and enriched our community and helped sustain the South West nuclear sector by providing thousands well-paid, high skilled jobs to our community.

“Now our attention turns to the job of defueling the power station.”

Over the coming weeks and months, teams at Hinkley Point B will undertake major maintenance and improvement projects across the plant to get it ready for the next stage of its life, defueling. This process, expected to last around three to four years, involves removing the remaining nuclear fuel from the reactors and transporting it to Sellafield for storage.

Once that work is complete EDF will hand the station to the Nuclear Decommissioning Authority for the next step of its life, decommissioning.

Major milestone as Government grants Development Consent Order to Sizewell C

Sizewell C has moved a step closer to starting construction after the Government today gave planning consent for the new power station in Suffolk.

The DCO application was submitted in May 2020 and sets out the range of measures the project will take to mitigate the effects of construction and maximise the benefits for local communities. More than one thousand interested parties and statutory consultees gave evidence during the public examination which ran from April to October last year.

Today's decision is the biggest milestone so far in the approval process for Sizewell C. It follows four rounds of public consultation which began in 2012 and involved more than 10,000 East Suffolk residents.

Carly Vince, Sizewell C's Chief Planning Officer, said: "I am delighted that, after months of careful consideration, the Government has given planning consent for Sizewell C. It is a big endorsement of our proposals and supports our view that this is the right project in the right place.

"I would like to thank the thousands of people in East Suffolk who contributed to our consultation sessions and the public examination. The input of residents, local authorities, environmental groups and many others has helped us to improve our plans. We will continue to work closely with them to make sure we minimise the impacts of construction and maximise the huge opportunities for the area.

"Sizewell C will be good for the region, creating thousands of opportunities for local people and businesses. It will boost local biodiversity and leave a legacy Suffolk can be proud of."

Sizewell C is set to become one of the UK's biggest net zero infrastructure projects, supplying reliable low carbon electricity to around six million homes. By displacing fossil fuel electricity, it will avoid around 9 million tonnes of CO2 emissions a year.

Negotiations with the Government on raising funds for the project are continuing and a Financial Investment Decision is expected in 2023. Last month, the Government announced that Sizewell C could be eligible for funding using the so-called Regulated Asset Base (RAB) scheme which will drive down the cost of the project to consumers.

Julia Pyke, Sizewell C's Financing Director, said: "Energy costs will be lower with nuclear in the mix, so today's decision is good news for bill-payers. The tried and tested funding arrangement we are proposing means that, by paying a small amount during construction, consumers will benefit in the long-term.

"Sizewell C will give a big boost to jobs and skills in nuclear supply chain companies across the country. It will strengthen the UK's energy security and play a key role in our fight against climate change.

"Planning approval brings us closer to delivering the huge benefits of this project to Suffolk and to the UK."

Other approvals required before the project can begin construction include a Nuclear Site Licence from the Office for Nuclear Regulation and permits from the Environment Agency.

For more information about anything in this report or other station issues, contact:

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