



# Site Stakeholder Group

Hunterston B Station Director's Report

Period: May to July 2018

## 1. Graphite inspection update

Work on the biggest graphite inspection programme we have carried out so far is now complete,



meaning we have inspected around 25% of Hunterston B's Reactor 3. We are now analysing the findings which will be used to support the long-term safety case for the unit.

In relation to Reactor 4, we had the option to either extend our operating case or carry out inspections while we have the equipment and resources available post Reactor 3 inspections.

We took the decision to carry out normal graphite core inspections commencing 2 October for 25 days on Reactor 4.

This decision gives us the opportunity to check our evaluations and predictions for Reactor 4 and yet again demonstrate that nuclear safety is the overriding priority in everything that we do.

Since the Reactor 3 outage started we have engaged with a number of stakeholders to assist with their understanding of the work we are doing. We have met with Councillors and officials from North Ayrshire Council and welcomed the Chairs and Vice Chairs of both the Hunterston and Hinkley SSGs to site for a tour (pictured).

We will provide an update at the next SSG meeting in September and on our website.

## 2. Safety and Environment

### Station Industrial Safety Performance

After an excellent run with no Lost Time Incidents (LTIs), industrial safety performance has been challenging over the reporting period. There have been three LTIs; two employees and one contractor meaning the Total Recordable Injury (TRI) rate is currently 2.71.

A member of staff was injured during the operation of a moving platform; another member of staff slipped and injured his elbow and a contractor experienced bruising and abrasions on his legs when grating he was standing on dislodged. All workers have made a full recovery and have returned to work. Full investigations have been carried out into all the incidents.

These events have sharpened focus on the station's safety performance and we are rolling out a new safety initiative initially targeting four areas for improvement: Risk Awareness; Safety Leadership and Back to Basics; Safety Rules & Safety Environment; Reporting and Communications.

In addition to this the station continues to be pro-active in the delivery of the company-wide Working at Height Campaign. Nationwide Platforms were onsite during July demonstrating their Virtual Reality technology to all Mobile Elevated Working Platform (MEWP) operators. In collaboration with the Station Contract Partners there was a working at height promotion day in the canteen, where suppliers were invited to demonstrate equipment.

We are currently on day 59 R3 Outage, to date there have been no accident book entries or significant near miss events related to the outage.

### Environmental Safety

There have been no significant environmental events in the period.

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

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.

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

### 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 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 dose was below plan (see table below). Collective doses are pre-planned on expected work 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.

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

<b>Radiation Dose to workers (May 2018 - July 2018)</b>		
Planned collective dose	24.6man.mSv	
Actual collective dose	20.9man.mSv	
	<b>Employee</b>	<b>Contract Partner</b>
Total Dose	15.19man.mSv	5.68man.mSv
Average individual dose	0.04mSv	0.02mSv
Highest individual dose	1.50mSv	0.97mSv
Individuals	391	323

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).

### Emergency Arrangements

Hunterston B continued its extensive training in emergency response arrangements. Training and exercise scenarios have included radiological breaches, fires, systematic search and rescue and trauma care.

On the 13<sup>th</sup> June, Hunterston B demonstrated its counter terrorist emergency response arrangements to the ONR CNS. This was done in accordance with the requirements of the Nuclear Industries Security Regulations 2003. It was a short, limited-scope exercise, which the ONR stated was a strong performance.

Preparations have also continued for a peer assessed exercise on the 7<sup>th</sup> September and the Level 1, ONR assessed exercise, on the 11<sup>th</sup> October.

### 3. Generation

During the period Reactor 3/Turbine Generator 7 remained off-line while the company works with the regulator to ensure that the longer term graphite safety case reflects the findings of the recent inspections and includes the results obtained from other analysis and modelling.

Reactor 4/Turbine Generator 8 has operated continuously throughout the reporting period with a drop in load for three days in June to allow for low load refuelling.

### 4. Company Update

#### South West contracts for Hinkley Point C top £1.3bn as the project remains on track

New figures released by the Government show that companies in the South West have now won contracts worth more than £1.3 billion for the Hinkley Point C nuclear power station in Somerset.

Hinkley Point C is making good progress with 3,200 workers on site in Somerset. It remains on target for its next milestone, in mid-2019, when construction rises above ground level and the first electricity is due from site in 2025.

Minister for Business and Industry Richard Harrington MP said: "Hinkley Point C will be pivotal in providing clean energy for the future, as well as creating high-skilled, well paid jobs right now in the South West with companies becoming world leaders in nuclear construction and services, all part of our flagship modern Industrial Strategy.

"As we outlined in our recent landmark nuclear sector deal, Hinkley Point C will create over 25,000 job opportunities over the construction period, as well as employing 900 people over its 60-year lifespan."



The plan sets out how the project is creating opportunities for local companies and workers, as well as helping to reinvigorate UK industry, enabling British companies to compete for nuclear contracts across the world.

Nigel Cann, Hinkley Point C Delivery Director, said: "South West firms have worked hard to win contracts and meet the high standards of safety, quality and efficiency required on this project. They have been real pioneers and shown ambition and determination. Their experience provides a lesson for other regions to follow."

### 5. Station update

#### Hunterston staff help to spread STEM message

Members of the Hunterston B team have been volunteering at two events designed to inspire the next generation of scientists and engineers.

More than 700 girls learned about the benefits of a career in science, technology, engineering and maths (STEM) at the SmartSTEMs sessions at Glasgow Caledonian University and Ayrshire College.

The pupils aged between 10 and 14, from schools across the area, heard from Louise Morran, an engineer at Hunterston B power station about her career in STEM. They also took part in a series of hands-on workshops including a Build-a-Droid workshop where the pupils were able to build their own R2D2 and navigate it through a series of tasks.



Research shows that over half a million job openings in science, research, engineering and technology will need to be filled over the next six years, to replace retiring workers but in engineering, for example, there is an estimated shortfall of people with the right skills of up to 60,000 a year.

The events run by SmartSTEMs target girls aged 10 to 14 and aim to encourage more people from diverse backgrounds to study STEM subjects at school.

Today's session was one of 12 SmartSTEMs which will deliver in partnership with EDF Energy before the end of the year, reaching up to 5,000 pupils.

Louise Morran, said: "Since I became an engineer I've seen the number of women entering the industry increase, but there are still too few. Right now, only one in four people working in core STEM industries in Scotland is a woman.

"I'm delighted that EDF Energy is supporting these events. We want to open girls' eyes along with those of their parents and teachers, to the variety of jobs available in these industries. Giving them the chance to hear from women working in these jobs and to find out about the range of careers they could enter can do just that."

Stuart Macdonald, of SmartSTEMs said: "We are delighted to pull together many wonderful industry partners and scores of generous volunteers to deliver this great event for these young girls. Proud to be playing our part in making Scotland a great place to discover and pursue STEM careers."

## 6. Staffing Update

As of April 2018 the station has 484.5 employees. Recruitment is ongoing in a number of departments to maintain our organisational capability against agreed station numbers.



The station has prepared a Lifetime Resource Plan to 2023 in support of the business mission of safe reliable generation over extended life. This provides us with an understanding of resource demands through the life of the station; potential attrition rates and what this means for resourcing, retirement of an aging workforce and an understanding of vulnerabilities for knowledge capture and transfer. The station plan is underpinned by detailed departmental plans to integrate opportunities and potential vulnerabilities.

EDF Energy power stations' have a strong local recruitment record with most of the Hunterston workforce living in the area. The stations also draw most of their new apprentices from schools near the sites. The recruitment campaign for the 2018 apprenticeship intake has concluded.

Our four new apprentices have started the programme with an outward bound trip in the Lake District and will carry out the first two years of their studies at the National Nuclear College.

Pictured L-R: Darelle Maclean (Largs); Katie MacDonald (East Kilbride); Lyle Higgins (Saltcoats); Darren Reid (Stevenson)

Hunterston B vacancies are displayed on the [www.edf-energy.com](http://www.edf-energy.com) web site.

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