



Site Stakeholder Group

Hunterston B Station Director's Report

Period: November 2018 to January 2019

1. Graphite Inspection Update

Work continues to progress on the safety cases for both reactors.

Following the submission of the reactor 4 safety case on 2 November 2018 we agreed with the ONR to carry out some more work to model the possibility of having more complex crack morphologies (termed multiply cracked bricks or MCBs) in the reactor core and to include our improved seismic building model.

As outlined in a letter to the SSG on 4 February, there have been no MCBs observed during our extensive investigation work and the strength in depth that we have in our stations would ensure that if they do occur the reactor could be safely shut down and controlled in even the most extreme situations.

Our internal verification work on this is nearing completion and the safety case is due to go back to the ONR for further assessment shortly. Work on the reactor 3 safety case continues in parallel.

We are also holding a series of information evenings at the Hunterston B visitor centre where people will be able to come along to hear more about the work we are doing and ask questions. These will take place in the second week of March and further details will be confirmed shortly.

2. Safety and Environment

Station Industrial Safety Performance

During January "Safe Start" training was delivered to more than 500 staff & contractors. This training takes place at the start of each year and aims to ensure all EDF Energy employees and contractors are focussed on maintaining a safe working environment after the festive break.

Our training department has been busy delivering Dynamic Learning training and one of our contracting partners delivered scaffold awareness and rope action training to our staff and contractors which was very well received.

The R3 Statutory outage starts on the 15th of February 2019 and is scheduled to last 60 days, there will be an increase in personnel on site during this time.

There were no lost time incidents, medical treatments or restricted work Injuries reported by EDF Energy or Contract Partner staff during the reporting period and no significant events.

This improved performance was achieved through our excellent engagement and team work coupled with high standards of Nuclear Professionalism and accountability.

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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 CRE 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.

Radiation Dose to workers (Nov 2018 - Jan 20189		
Planned collective dose	21.3man.mSv	
Actual collective dose	13.6man.mSv	
	Employee	Contract Partner
Total Dose	7.44man.mSv	6.16man.mSv
Average individual dose	0.02mSv	0.02mSv
Highest individual dose	1.17mSv	0.61mSv
Individuals	389	315

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

There were no activations of the emergency arrangements in this period.

Staff training and exercises continue. Preparations are underway for a demonstration of the off-site emergency response plan, also known as a Level 2 exercise; this takes place every 3 years.

The demonstration in June will involve multi-agency partners, including the emergency services, the local authority and the regulators and will test each of their responses against the off site plan.

3. Generation

During the reporting period Reactor 3/Turbine Generator 7 and Reactor 4/Turbine Generator 8 remained off-line while the company works with the regulator to ensure that the longer term safety

cases reflects the findings of the recent inspections and includes the results obtained from other analysis and modelling.

4. Project Servator

The Civil Nuclear Constabulary (CNC) is in the process of rolling out Project Servator across Nuclear Licensed Sites in the UK with Hunterston the latest site for deployment.

Project Servator will see highly visible yet unpredictable deployments of specially trained officers around the Hunterston site and the surrounding local community. The operational deployments involve officers working together with our communities to report suspicious activity. These officers are deployed to deter, help detect, and provide reassurance and confidence to members of the public.

The tactics used as part of Project Servator are not new and are used regularly by Police Scotland, the City of London Police, British Transport Police and several Home Office police forces. They have been developed to enhance the effectiveness of our resources and not as a response to any change in threat.

You can read more about Project Servator on the CNC website:

<https://www.gov.uk/government/news/will-you-trust-your-instincts-project-servator-launches-at-hunterston>

5. Company Update

EDF Renewables UK to build Scottish Offshore Wind Farm

EDF Renewables UK has received consent from the Scottish Government for an improved design for the Neart na Gaoithe (NnG) offshore wind farm.

The wind farm will generate 450MW output of renewable energy – equivalent to the annual electricity consumption of around 375,000 Scottish homes.

The design will feature a maximum of 54 turbines with a maximum of 208 metres tip height above sea level which means the project will use the latest advances in offshore wind technology, with wind farm is expected to be operational by 2023 at a cost of around £1.8 billion.

Matthias Haag, EDF Renewables UK NnG Project Director, said: “This is great news and we are excited to move forward delivering this milestone project for Scotland which will provide low carbon energy for decades to come.”

EDF Energy has announced it will end generation at its 2000MW Cottam Coal Fired Power Station in North Nottinghamshire

The company proposes to cease generation on 30th September 2019 and has started consultation with Trades Union partners and employee representatives of 158 employees impacted by the decision.

Cottam power station has played a critical role in keeping the lights on for more than 50 years and the decision reflects the challenging market conditions over the last few years and the context of the drive to decarbonise electricity generation.

Cottam Plant Manager Andy Powell said: “When the power station was built it was designed to operate for 30 years. It’s a credit to our people, the engineering and EDF Energy’s investment that it has operated for more than 50 years. There has been an aspiration to move away from coal for a long time now and we have prepared thoroughly for the closure.”

“We have a highly skilled and experienced workforce and are determined to support our people throughout this process.”

Some Cottam workers have been transferring to other roles in EDF Energy since 2017.

EDF Energy operates the Cottam and West Burton A coal power stations in North Nottinghamshire, each capable of generating 2000MW.

The company continues to invest in, and to operate, low carbon generation, including nuclear and renewables and to invest in battery storage such as the 49MW project for the UK's National Grid at the nearby West Burton site. Alongside this is the West Burton B CCGT, EDF Energy's only gas fired power station which has three units with a combined output of 1332MW.

6. Station Update

Special Recognition for Hunterston B Apprentice

A Hunterston B apprentice has been recognised for her performance at EDF Energy's annual apprenticeship graduation ceremony in Worcestershire.



Rachel Boyd from Ardrossan was named Hunterston B apprentice of the year and received a special award from Simone Rossi, EDF Energy's CEO, at the annual apprentice graduation ceremony. She was recognised for her nuclear professionalism and positive attitude throughout the four year apprenticeship.

The 22year old was joined by apprentices from across the business including fellow Hunterston apprentices Keri Lumsden, Fraser Wright, Ryan Nisbet and Michael Hodge.

All 5 of the power station's apprentices spent 4 years on the company's highly-regarded Engineering Maintenance Apprenticeship Scheme.

Rachel said: "I have really enjoyed the apprenticeship programme over the past 4 years so I feel honoured that my hard work has been recognised. I have developed so many new skills since I started and I am looking forward to keeping up the hard work in my role as a full-time technician."

Maintenance Manager, Len Astell, said: "All of our apprentices have performed brilliantly over the past year so Rachel was up against some very stiff competition. She is a great example of how young people can make the most of the opportunities available through the modern apprentice scheme."

The awards were presented by EDF Energy Chief Executive Simone Rossi in front of an audience of graduating apprentices and their families.

Five-Star Success for Hunterston B Visitor Centre

It is five out of five for Hunterston B power station's visitor centre after VisitScotland's mystery shopper dropped in to tour the EDF Energy station.

The North Ayrshire facility has retained its five-star award from the national tourist organisation for the fifth year in a row.

The ratings focus on the standard of the welcome, hospitality and service provided and show the standard of customer care visitors should expect.

The assessor said the guides should be "commended for delivering consistently high standards." The tour, conducted by Lorna (pictured) was described as "interesting" and "informative".



Acting Station Director Roddy Angus said: "Gaining and retaining a five star rating from Visit Scotland for five years in a row is a really impressive achievement. I'm delighted that our team is doing such a great job of helping people understand how the power station works and showcasing the facility we have here in North Ayrshire.

Visitor Centre Coordinator, Emma Horne, said: "Our guides work hard to make sure that our visitors have a five star experience when they visit so having confirmation of that from VisitScotland is a great boost. They are all really enthusiastic about what they do and that clearly comes through in the tours.

"Since 2012 we have had more than 17,500 people through our doors and I hope that every one of them has left feeling well informed about the power station and about energy more generally."

You can visit Hunterston B power station's visitor centre Monday- Friday between 9 am and 4pm. Tours are free and cater for groups and individuals but need to be booked in advance. You can book by calling 01294 826008 or e-mailing hunterstonbtours@edf-energy.com.

7. Staffing Update

During 2018 Hunterston managed recruitment for a number of roles on site throughout the year including the promotion of 19 internal employees and appointing 20 new external personnel.

As of January 2019 the station has 476 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.

Hunterston B vacancies are displayed on the www.edf-energy.com web site

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

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