Site Stakeholder Group

Hunterston B Station Director's Report

Period: February to April 2017

1. Safety & Environment

Station Industrial Safety Performance

There were no Lost Time Incidents* (LTIs) reported by EDF Energy or our contract partner staff during this period, The Total Recordable Injury Rate is currently 0.

It has been 3261 days since the last EDF Energy LTI and 3249 days since the last contract partner LTI at Hunterston B; more than eight years and there have not been any accident book entries so far in 2017.

There were no Industrial Very Significant Incidents or Serious Incidents reports in this period.

A corporate manual handling campaign was successfully rolled out at the station during April.

We've been working with "Ayrshire Community Media" to create a virtual reality experience as part of the safety awareness training ahead of the Reactor 4 Statutory Outage later in the year. A number of students joined us on site in May to carry out the filming.

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. By agreement with SEPA we continue to report in accordance with the recently revised authorisation requirements.

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 Hythe.

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 1999 which is the UK Health and Safety legislation that applies to work with radiation.

During the reporting period the actual collective dose was below plan (see table below). We plan the collective dose expected for each year based on the work due to be carried out on the plant. 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 (February - April 2017)		
Planned collective dose	12.0man.mSv	
Actual collective dose	8.8man.mSv	
	Employee	**Contract Partner**
Total Dose	6.93man.mSv	1.82man.mSv
Average individual dose	0.02mSv	0.04mSv
Highest individual dose	0.08mSv	0.01mSv
Individuals	423	290

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

During the reporting period the emergency response arrangements at Hunterston B have been compliant with the relevant regulations and in alignment with the EDF fleet.

We have had a busy few months with four training exercises and one full site participation exercise; Exercise DUNURE, held on the 28th April 2017.

Exercise DUNURE, was a peer assessed exercise and was observed by an EDF Energy company team. It was a complex scenario designed to test the capabilities of the Hunterston B response teams. We had very positive feedback from the assessors.

We continue our programme of training, recently focusing on casualty search and rescue and casualty care.

2. Generation

Month/Unit	**R3/TG7**	**R4/TG8**
February	• 5th - the unit was safely returned to service following a planned graphite inspection outage and load raised to optimum load for the remainder of the month	• The unit operated continuously through the month • 14th -17th - output was reduced for planned low load refuelling
March	• 16th - the unit was safely shutdown following a fault on a control fluid system turbine generator. It returned to service on 21st March and operated at optimum power for the remainder of the month.	• The unit operated continuously throughout the month
April	• The unit operated continuously at optimum power throughout the month	• The unit operated continuously throughout the month • 10th – 13th - output was reduced for planned Low Load Refuelling

3. Company Update

A trio of new wind farms for EDF Energy

EDF Energy Renewables (EDF ER) has achieved a UK wind farm hat trick. The company has added three wind farms to its existing UK portfolio.

Pearie Law in West Lothian, Corriemoillie in the Highlands and Beck Burn near Carlisle are all now up and running and generating electricity.

This means EDF ER now owns and operates wind farms which can generate around 700 megawatts of electricity across the UK, the equivalent of powering for more than 420,000 homes.

EDF Energy Renewables Chief Executive Matthieu Hue said, "This is great news for us and we are very pleased to have an additional three wind farms to add to our portfolio.

"They will make an important contribution to the supply of low carbon electricity and will benefit the local communities too."

EDF Energy sets out progress at Hinkley Point C new nuclear power station

Six months after contracts were signed for Hinkley Point C in Somerset, EDF Energy set out the progress made at the site. This includes confirmation that concrete has been poured for the power station galleries. The galleries are a network of connected tunnels which will carry cabling and pipes. They will be some of the first permanent structures on the site.

The concrete pour is a great achievement for the project team and followed the first consent for construction granted by the independent regulator, the Office for Nuclear Regulation (ONR). EDF Energy is committed to delivering HPC to the highest standards of safety and quality while working continuously to learn and improve as the project moves forward.

Other progress includes:

- Start of construction of a 500m temporary jetty in the Bristol Channel allowing 80% of the aggregate to be brought in by sea rather than by road.
- Construction of a store which can contain 57,000 tonnes of aggregate.
- Excavation of 3 million cubic metres of soil and rock to prepare the ground for the power station buildings.
- Construction of the first two tower cranes.
- Work to build 15 on-site accommodation buildings for more than 500 workers has begun.
- Good progress is being made on the sea wall which will provide a barrier between the power station and the coastline.
- A spray batching plant has been built to produce a finer quality of concrete which will be sprayed to secure slopes at the site.

Hinkley Point C will relaunch the nuclear construction industry in the UK. It will provide 25,000 job opportunities and 1,000 apprenticeships with many of the jobs going to people living in Somerset. With 64% of the project spend going to the UK, HPC is already delivering significant benefits to the economy in the South West and other parts of the country. £435m of contracts have been signed so far with businesses in the region.

The power station is a vital part of the UK's low carbon energy future and will provide enough reliable electricity to meet 7% of the UK's future electricity needs.

New hi-res video and photographs showing some of the main areas of construction work at HPC are available in our online media library here.

4. Station News

Hunterston B power station support for North Ayrshire children's club

A holiday club that caters for pupils at two of North Ayrshire's special needs schools has been given a financial boost by Hunterston B power station.

EDF Energy, which operates the station, has donated £8,000 from its Scottish Charity Fund to the Butterfly Club.

The charity was formed by the parents of pupils at James MacFarlane School in Ardrossan and Haysholm School in Irvine. It gives pupils the chance to take part in a range of activities during the school holidays which help reduce their isolation and improve their quality of life while providing respite for families and carers.

The money will help the club to provide specialist care for the children and support a range of activities including cooking, music, drama, swimming, trips to the cinema and horse riding.

Over the past year EDF Energy has donated more than £100,000 to Scottish charities. Most of that money has benefitted groups near to its bases at Hunterston B, East Kilbride and Torness.

Hunterston B Station Director, Colin Weir said: "The Butterfly Club provides a crucial service to the children and families of James MacFarlane and Haysholm schools so I was delighted to be able to visit James MacFarlane School recently to hand over our donation to their funds. While I was there I was fortunate enough to meet some of the pupils and parents who use the club during the summer. It was great to hear about the activities the club runs and way these benefit the children."

The Butterfly Club's chairperson, Emma Lambert said "I was overwhelmed when we heard of this generous donation, I'm sure I speak on behalf of all the children and families who use the service when I say how grateful we all are. With grants becoming harder to get this money will really put us in good stead for this year's club and will be spent on outings and activities for our Butterflies to enjoy their summer."

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

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5. Glossary of Terms

Term	Definition
Unit	A unit refers to one of the reactors at the power station and its generating turbine
Nuclear reportable event or incident	Nuclear reportable events are events reported to the Office of Nuclear Regulation (ONR) in compliance with EDF Energy's nuclear site licences.
Environmental event or incident	Environmental events arise from wastes or discharges above permitted levels or breaches of permitted conditions.
Lost Time Incident (LTI)	When a member of staff injures themselves at work, and is absent from work for one day or more, this is referred to as a lost-time incident (LTI)
Total Recordable Incident Rate (TRIR)	Total Recordable Incident rate is the total number of Lost Time Incidents, Medical Treatment Cases, Restricted Work Cases and which is divided by the amount of total amount of man-hours and then multiplied by 1 million. This indicator is a 12 month rolling figure. [(LTI+MTC+RWC)/manhours] x 1000000 = TRIR. 0.54 represents 1 Restricted Working Case during December 2015.
Outage	A period during which a reactor is shut down. The periodic shutdown of a reactor including for maintenance, inspection and testing or, in some cases, for refuelling is known as a planned outage. In the UK, some planned outages are known as statutory outages and are required by the conditions attached to the nuclear site licence needed to operate the station. Unscheduled shutdown of a reactor for a period is known as an unplanned outage.