



Site Stakeholder Group

Hunterston B Station Director's Report

Period: May to July 2017

1. Safety & Environment

Station Industrial Safety Performance

Planning is well underway for the R4 Statutory Outage and we started the roll-out of the Outage Safety Awareness Dynamic Learning (DLA) in July. One element of the DLA immerses staff and contract partners in a Virtual Reality experience which was produced by local organisation "Ayrshire Community Media". The feedback from the staff so far has been positive.

During recent jetty upgrade works we took immediate action when some asbestos was found in soil in the area of the fish farm.

The potential health risks from asbestos in soil are far lower than from asbestos within buildings. We suppressed any potential fibre release by spraying surfactant and covering the area. We carried out air monitoring to make sure the legal control limit was not breached, notified the Health and Safety Executive of the discovery and employed a licenced contractor to remove and dispose of the excavated soil and to reinstate the ground.

There were no Lost Time Incidents* (LTIs) reported by EDF Energy or our Contract Partner staff during this period. It has been nine years (3286 days) since the last EDF Energy LTI and almost nine years (3274 days) since the last Contract Partner LTI at Hunterston.

The Total Recordable Injury Rate is currently 0.6. This is due to a restricted work accident that occurred in May.

Our industrial safety performance has been remarkable with only two accident book entries in a seven month period, however, we will not become complacent and we continue to focus on achieving Zero Harm.

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

Environmental Safety

Hunterston B has made an application to Marine Scotland to remove seaweed from the seabed next to the cooling water intake jetty to help to reduce the amount of seaweed entering the cooling water system. The consultation period on the application has ended, responses have been received and the station is awaiting a license decision from Marine Scotland.

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 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). Collective dose is 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 (May 2017 - July 2017)		
Planned collective dose	27.0man.mSv	
Actual collective dose	21.6man.mSv	
	Employee	Contract Partner
Total Dose	13.43man.mSv	8.12man.mSv
Average individual dose	0.03mSv	0.03mSv
Highest individual dose	1.89mSv	1.58mSv
Individuals	421	302

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

In July, emergency response teams focused on chemical spill training, with approximately 100 members of staff trained in new chemical decontamination tents and new chemical response suits.

The exercise season is about to commence, the first shift exercise is scheduled for the 1st September.

Previously issued stable iodine tablets were nearing their expiration date so NHS Ayrshire and Arran has been visiting all houses within the Detailed Emergency Planning Zone (2.4km from the station) to collect old tablets and reissue with new ones.

2. Generation

Month/Unit	R3/TG7	R4/TG8
May	<ul style="list-style-type: none"> • The unit operated continuously throughout the month. • 9th-11th: Output was reduced for planned Low Load Refuelling. 	<ul style="list-style-type: none"> • The unit operated continuously through the month.
June	<ul style="list-style-type: none"> • The unit operated continuously throughout the month. 	<ul style="list-style-type: none"> • The unit operated continuously throughout the month. • 13th-16th: Output was reduced for planned Low Load Refuelling.

July	<ul style="list-style-type: none"> • The unit operated continuously throughout the month. • 4th-6th: Output was reduced for planned Low Load Refuelling. 	<ul style="list-style-type: none"> • The unit operated continuously throughout the month. • 24th-28th: Output was reduced for planned Low Load Refuelling.
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3. Company Update

New leadership roles announced at EDF Energy

EDF Energy has announced changes to its leadership team which will see Stuart Crooks take charge of the Hinkley Point C project now that it has entered fully into its construction phase.

Stuart was very successful as Managing Director of the Generation business but will now lead the construction and delivery of the UK's first new nuclear power station in almost a quarter of a century.

Brian Cowell will become the new Managing Director of the Generation business, having been Director of Nuclear Operations for EDF Energy's high-performing nuclear fleet.

He will be responsible for all of EDF Energy's existing nuclear, coal, gas and renewables operations and will oversee work to identify further nuclear life extension opportunities, optimise end of the nuclear stations' lives and plan for the phased closure of the coal plants.

Through the EDF Energy Renewables joint venture, he will seek to develop further UK renewables capacity.

EDF Energy Renewables buys 11 new wind farm sites

EDF Energy Renewables (EDF ER) has bought 11 wind farm sites from Partnerships for Renewables, a development and asset management company. The sites in Scotland have a potential capacity of 600 MW.

Three sites with around 100 MW of capacity already have planning consent, one site is in the planning system already and seven other sites are in development. The majority of the projects are on land managed by Forest Enterprise Scotland.

The acquisition is further evidence of EDF Group's commitment to Scotland and renewable energy in the UK and around the world. EDF ER currently has 319 MW in operation in Scotland with more than 1 GW in development, including the fully consented 340 MW Lewis Wind Farm projects.

4. Station News

Station record for Hunterston Turbine Generator 8

On Saturday 15th July, Hunterston B reached a significant milestone.

The station's Turbine Generator 8 achieved a continuous run of 440 days matching its own previous record.

The achievement is testament to both the planning and commitment of the station's dedicated workforce and the investment by EDF Energy.

Since EDF Energy took over the fleet of eight UK power stations in 2009 it has increased safety performance by 65% and output by 60%. The output for the year in 2008 was 40TWh. In 2016, it was 65.1TWh.

Turbine Generator 8 will be taken offline for a statutory outage in September.

Hunterston B gives funding boost to local women's charity

A North Ayrshire charity which offers emotional and practical support for women and children affected by domestic abuse has become the latest beneficiary of EDF Energy's Scottish Charity Fund.

The owner of Hunterston B power station has donated £8,000 from the fund to North Ayrshire Women's Aid.

One in five women experience domestic abuse and it affects 100,000 children in Scotland. North Ayrshire Women's Aid offers a range of services from group support and counselling to help with form filling and refuge services.

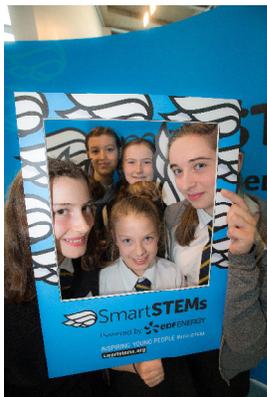
Over the past year EDF Energy has donated more than £100,000 to Scottish charities. Most of that money has benefitted groups near to its bases at Hunterston B, East Kilbride and Torness.

Hunterston B Station Director, Colin Weir said: "Figures from the Scottish Government show that the levels of domestic abuse reported to Police Scotland have dropped but there are still too many women experiencing abuse in the home. The support North Ayrshire Women's Aid provides offers them a vital lifeline. I'm delighted that I was able to hand over a cheque for £8000 to help them carry out their work in area."

Mary Beglan Chief Officer from North Ayrshire Women's Aid said: "The generous donation from EDF Energy has allowed us to spread word of our service to women experiencing or at risk of experiencing domestic violence. We purchased lip balm with our telephone number on it and promotional leaflets which will be distributed across North Ayrshire. Through this gift EDF Energy has enabled us to get our message to thousands of women and children at risk and in doing so may have saved some lives. We have also purchased new garden furniture for women and children to enjoy in our accommodation."



Hunterston B support girls in STEM events



Some enthusiastic volunteers from Hunterston B recently supported a series of events designed to encourage more girls to study STEM subjects.

The volunteers supported a session at Ayrshire College as part of EDF Energy's headline sponsorship of the SmartSTEMs programme.

More than 1,300 girls attended events across the West of Scotland to hear from female STEM role models and take part in hands-on work-shops. Visitors to EDF Energy's exhibition stand were able to experience our virtual reality Pretty Curious video which gave the girls an insight into the careers of three women working in STEM careers. Further sessions are planned for later in the year.

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)	<p>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.</p> $((LTI+MTC+RWC)/manhours) \times 1000000 = TRIR.$ <p>0.6 represents 1 Restricted Working Case during May 2017.</p>
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.