



Site Stakeholder Group

Hunterston B Station Director's Report

Period: May to July 2016

1. Safety and Environment

Station Industrial Safety Performance

There were no Lost Time Incidents (LTIs) reported by EDF Energy or our contract partner staff between the start of May and the end of July. The Total Recordable Injury Rate is currently 0.95.

It has been 3032 days since the last EDF Energy LTI and 3020 days since the last Contract Partner LTI at Hunterston B. That is more than eight years.

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

We also successfully completed TG7 Outage, where our safety performance was exemplary.

Throughout this period our excellent engagement and team work coupled with high standards of nuclear professionalism and accountability mean we have achieved a good safety performance.

We will continue to work towards zero harm.

Environmental Safety

During May, the site was audited by an external company against the International Standards for Environmental Management, Quality, and Industrial Safety (ISO 14001, 9001 and 18001). The audit was successfully completed with no areas for improvement identified against any of the Standards. This is a significant positive result for the station and receiving no findings is a first within the EDG Energy fleet.

There were no significant environmental events in the period. Two 'near miss' type events were recorded.

Some waste material was put into an incorrect skip for disposal. Segregation of waste materials is important to allow us to recycle as much as possible. The incorrect disposal meant additional work had to be performed to properly sort the materials prior to disposal.

As part of our normal operations we dose our cooling water system with mild bleach to prevent mussel growth and marine fouling. During the period there was a small leak of this bleach from a storage container. The leak was contained within the protective bunding which was designed for this purpose. There was no loss to the environment and repairs have been implemented.

Work has now started at the surface water discharge point to improve safe access for personnel. Additional handrails are being fitted and some rocks and boulders are being put in place around the discharge point to provide greater resilience against storm conditions.

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.

The ongoing programme of off-site environmental monitoring and radiation surveys in the district has continued as normal and continues to demonstrate 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).

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.

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.

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

| Radiation Dose to workers (May-July 2016) | | |
|--|-------------|------------------|
| Planned collective dose | 45man.mSv | |
| Actual collective dose | 26.9man.mSv | |
| | Employee | Contract Partner |
| Total Dose | 14.8man.mSv | 12.1man.mSv |
| Average individual dose | 0.036mSv | 0.039mSv |
| Highest individual dose | 2.14mSv | 2.14mSv |
| Individuals | 425 | 312 |

| 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 have been no activations of the emergency arrangements during the period but the station has maintained a state of readiness.

In June the station completed a successful demonstration exercise to the regulator relating to our emergency arrangements for a security event. A number of positive elements were identified, particularly the close working relationship with the emergency services, along with some learning opportunities. These will be built into future training exercises.

2. Generation

R3/TG7

May: The unit operated continuously at optimum power until 12 May when the unit's output was reduced for planned Low Load Refuelling. Refuelling was completed on 15 May and load was raised to optimum power for the remainder of the month.

June: The unit operated continuously at optimum power throughout the month.

July: The unit operated continuously at optimum power until 5 July when the unit's output was reduced for planned Low Load Refuelling. Refuelling was completed on 8 July and load was raised to optimum power. On 23 July the unit was safely shutdown to address an issue in the conventional turbine generator part of the plant which meant more oil was being used than expected. The issue has since been resolved and the unit returned to service on 12 August.

R4/TG8

May: On 1 May the unit was returned to service following a planned Interim Outage and load raised to optimum load for the remainder of the month.

June: The unit operated continuously at optimum power until 9 June when output was reduced for planned Low Load Refuelling. Refuelling was suspended on 10 June due to an issue with the refuelling charge machine. Refuelling recommenced on 16 June and completed on 18 June and load was raised to optimum power for the remainder of the month.

July: The unit operated continuously at optimum power throughout the month.

3. Company Update

Hinkley Point C: EDF's Board of Directors approves the final investment decision

At its meeting on 28 July 2016, EDF's Board of Directors made the final investment decision and gave the President the authorisation to ensure its full execution in the framework of the signature process of all the contracts and agreements necessary to build the two nuclear reactors at Hinkley Point C (HPC) in Somerset, in south-west England.

Following this decision, the conditions have been met to allow EDF to sign the contracts with the British Government, EDF's historic partner China General Nuclear Power Generation (CGN), and the main suppliers of the project.

This is a hugely important milestone for the project, as it is for EDF Group and EDF Energy. It means that the company is now ready, but there are still some steps before these signings can take place.

In a letter to staff Vincent de Rivaz, Chief Executive Officer, said: "Nuclear energy has a crucial role to play in security of energy supply and tackling climate change. There is no solution for the UK without new nuclear in the mix. And HPC is the necessary first step in the roll out of new nuclear."

Energy efficiency project helps tenants save money on energy bills

An award winning joint project between EDF Energy, Westdale Services Ltd and Rykneld Homes has helped 330 social housing tenants in North East Derbyshire save money on their energy bills and cut carbon emissions, thanks to the installation of a range of energy efficiency measures.

The project, which ran from June 2015 to January 2016, has seen the installation of insulation and double glazing into 330 hard-to-heat concrete built 'REEMA' properties in the North East Derbyshire area. (REEMA is a non-traditional type of housing construction used in the 1950s and 1960s.)

Westdale Services Ltd was appointed by Rykneld Homes Ltd to manage and deliver the energy efficiency improvements and the project was part funded by EDF Energy under the Energy Company Obligation.

EDF Energy helps flood affected homes in Cumbria

EDF Energy, the UK's largest producer of low-carbon electricity, today announced the completion of a £100,000 scheme that has helped to fund energy efficiency measures in 36 flood affected homes in Kendall and Carlisle.

In the first and largest scheme of its kind in Cumbria, flood-damaged cavity wall insulation has been replaced in the properties by new water-resistant bonded polystyrene bead insulation which will improve the energy efficiency of the properties.

It is estimated that this will help residents to make significant savings on their fuel bills, up to £160 per year, the equivalent of 30 tonnes of carbon emissions per household.

EDF Energy partnered with Green Deal First and its installation company Thrift Energy to complete the £100,000 project, which is part of the Government's Energy Company Obligation (ECO) – an initiative designed to help people in low-income areas save energy, thereby saving carbon and money on their energy bills.

4. Station News

Hunterston B students have won a number of accolades at the end of academic year ceremony:

- Courtney McMillan won the Academy Apprentice of the Year
- Rachel Boyd won the Year 2 C&I Student of the Year 2016
- Christie Fraser was a runner up for the Academy Apprentice of the Year
- And Keri Lumsden was a runner up for the Year 2 Electrical Apprentice of the Year

The first two years of the EDF Energy apprentice programme are based at the Royal Naval base at HMS Sultan near Portsmouth, Hampshire. During this time apprentices undergo training in academic and workshop environments to ensure they gain an excellent introduction to engineering and develop a strong skills foundation. Part of this programme also covers the development of life skills, like confidence and communication.

The apprentices will spend four years in training to attain an Advanced Modern Apprenticeship Certificate in Engineering, a BTEC Level 3 (ONC equivalent) and also an NVQ Level 3.

5. Staffing Update

The station currently employs 550 full time staff, including 23 apprentices.

Our fourth year apprentices recently celebrated the successful completion of their apprenticeships and are about to embark on their engineering careers with EDF Energy at Hunterston B.

We are currently recruiting in the areas of Security, Work Management and Group Heads. 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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