

THE **Point**

**THE OTHER BIG
CARL: WE CHAT
TO POWERLIFTING
CHAMPION CARL
THOMPSON
P10**



HinkleyPointC
EDF CGN

**THE ESSENTIAL READ FOR TEAM HPC
ISSUE No.57
NOVEMBER 2021**

BIG MOMENT FOR TURBINE

The first major component for what will become the world's largest steam turbine and generator set has successfully completed its long journey from GE's Belfort Factory in France, via Rotterdam Port in Holland to Avonmouth.

The low pressure (LP) rotor forms a critical part of the electrical power production equipment in the Turbine Hall.

It measures 20 metres long, weighs in at a hefty 257 tonnes and houses the largest last-stage blades ever made at 1.9 metres.

Turn the page to find out exactly what it took to move such a large and important piece of precision equipment.

CONTINUED ON P3 »

WIN

A Motorola
dash cam!
P12



A ROTOR'S JOURNEY: The LP rotor started its journey in GE's Belfort Factory in France (left), before making its way via Rotterdam to Avonmouth. It was safely offloaded (centre), before being moved to the S-Shed for storage (right). It will then be installed in the Turbine Hall (top) and form part of the largest steam turbine in the world.

MARKING QUALITY WEEK AND ROAD SAFETY WEEK » P6-7

SIMON'S WELCOME

“Please one and all, keep having the conversations and helping to send us all home safely every day and night.”

Welcome to the November issue of The Point.

This month we have both Quality Week and Road Safety Week – two important campaigns that I encourage you to engage with.

I am now a few weeks into my new role and I'm regularly getting out and about on Site. The construction of HPC is inspirational, safely growing every day to establish a generating legacy that will create clean energy for 60 years.

I am enjoying the conversations on Site to better appreciate the challenges we face, and thanking people for all the positive work done every day.

Equally, reminding people when we forget the arrangements that are designed to keep us safe. Please one and all, keep having the conversations and helping to send us all home safely every day and night.

Later in November I am looking forward to the HPC Excellence Awards, where we will recognise individuals, teams and suppliers delivering exceptional work at HPC. I also look forward to continuing meeting you all. If you see me, please do say hello and introduce yourself.

Thank you and stay safe.

Simon Parsons
NI Area, Site and
Civils Director



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PROJECT DASHBOARD: THE ARMED FORCES COVENANT

In October, Simone Rossi, CEO of EDF (UK), signed the EDF Armed Forces Covenant alongside Major General Chris J Ghika CBE, General Officer Commanding HQ London District. This was the second time EDF had signed the Covenant, which commits EDF and HPC, to ensure those who serve, or have served in the armed forces, and their families, are treated fairly.



2016

EDF first signed the Armed Forces Covenant. The re-signing extends the commitment for a further four years.



SILVER

By re-signing, EDF has upgraded its status from Bronze to Silver award. At the signing, Simone stated his ambition to go for gold.

210

The number of members in the Forces Supporters Network (FSN) at EDF. The FSN exists to support former service people, Reservists, military families and any armed forces enthusiasts in succeeding at EDF in the UK. The lead for the FSN at HPC is Richard Osborne.

5

The number of team members at HPC who support Cadet Units in Somerset.

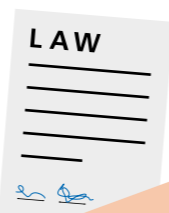


30

Between August and September 2021, the EDF Occupational Health and the HPC FSN provided a social event at Cannington Court in support of 30 veterans at HPC who had served in Afghanistan.

2011

The Armed Forces Covenant was introduced and entered into law.



WHAT WE DO

- At HPC we support our cadets by letting them use the football pitches at our HOST Campus accommodation.
- Reservists and Cadet Force volunteers are granted paid leave to attend annual training.

PROGRAMME PREP PAYS OFF

The Reactor Operator (RO) training programme at HPC is now under way – and it took an incredible effort from various team members to get everything in place to make it happen.

The first cohort is currently learning about the fundamentals of reactor physics, thermodynamics and components in preparation for commencing their Main Control Room (MCR) simulator training, using facilities installed at Cannington Court and the National College for Nuclear.

Preparations for the programme began in 2016, so it's been a long process. Andy Peppin, HPC Simulator and Training Facilities Manager, Pre-Operations, said: "We had a critical milestone, 'Ready to commence training on the HPC reference design simulator', and this was achieved on

time through collaboration between Pre-Operations, the Project Delivery team and contract partners.

"Having now accomplished this to schedule, we can ensure we have a sufficient number of highly qualified operators ready to support the commissioning of the plant and take it into its operational phase. The work was significant, so it's a true cause for celebration that we managed to accomplish everything needed to ensure the programme was ready to be delivered."

We now look forward to the next key milestone which will be the transition into the Site Simulator and training facility. This will provide the training team with fantastic classrooms and a replica MCR simulator environment.



TRAINING IN NUMBERS

The training programme runs for 18 months, and there are eight RO cohorts, consisting of eight to 12 people per cohort, planned from 2021 to 2024.



GOING UP: Work is continuing in the Unit 1 Reactor Building to support our +5.15m slab milestone.

STRIVING FOR FINAL 2021 MILESTONES

Your hard work has meant we've been able to achieve 14 of our 21 milestones so far this year – a fantastic achievement! A small number of the remaining seven will be challenging to achieve by the end of 2021, but we aim to complete the year with as close to 21 as possible. In a year heavily disrupted by the impacts of Covid-19, this remains a great performance.

On our Nuclear Islands we are preparing to lift the first Liner Ring onto Unit 2, and on Unit 1 are preparing for Inner Containment Pour 3 later this month.

Meanwhile, the first diesel generator tanks for Unit 1 are being prepared for their delivery to Site, having completed their Factory Acceptance Testing (FAT). The main phase of works to refurbish Combwich

Wharf has been finalised, allowing large pieces of equipment such as these to be delivered by barge.

For the Reactor Building +5.15m slab, the team is focusing on building height, with the peripheral and suspended walls taking shape. Over in the Conventional Island, Blyor is preparing to complete a 2,500m³ concrete pour for the table on top of our Turbine

Group columns, which is another milestone. Once complete, the heavily reinforced concrete structure will support the largest turbine in the world.

No matter what our roles are at HPC, we all play a part in Helping Britain Achieve Net Zero. You can find out more about our 21 in '21 milestones by visiting the Goals page on teamhinkley.com.



SLOW AND STEADY DOES THE JOB

CONTINUED FROM P1

"Controlled, uneventful, just how we like it." That's how Daniel Massey, Osprey's Senior Project Manager, described the achievement of offloading a 257-tonne LP rotor after its journey from where it was manufactured and tested by GE in France to a temporary home at Avonmouth.

The journey, which required about 12 months of meticulous planning by a core project team from Osprey, EDF and GE, was completed in two distinct stages, moving from Belfort to Rotterdam, where it was loaded onto the vessel that would bring it to Avonmouth.

After two days at sea, it was offloaded from the vessel in Avonmouth and delivered safely into the S-Shed storage facility over a period of 10 hours.

This was the heaviest Abnormal Indivisible Load (AIL) that has come to the Project so far.

Andrew Inglis, GE's Onshore Project Manager, said: "The journey to Rotterdam is a tried and tested route for us and will be the pathway for most of the large loads coming from Belfort. The journey to Avonmouth was a first for such a heavy item and it went very smoothly."

RIGHT PEOPLE

Daniel added: "Having the right equipment and the right people in place is vital for a project of this scale. Everyone knew their jobs and what was required of them, from Osprey, GE and EDF to Wincanton who manage the storage facility, and G4S who provided security during the move."

"The fact that the move was entirely uneventful is a massive credit to everyone involved."

WHAT HAPPENS NEXT?

The LP rotor will be held in storage while attention turns to one of our remaining 21 in '21 milestones: the completion of the concrete Turbine Generator Table, which sits on top of the iconic blue support columns on the Conventional Island. This is where the Steam Turbine and Generator will eventually be installed.

Completing the Turbine Generator Table will require a major 2,500m³ concrete pour. Keep your eyes on The Point for more details!

TEAM TIME: You can also stay up to date with the latest news and information about HPC at The Point Online.

AT YOUR FINGERTIPS: Visit the App Store or Google Play and download the teamhinkley.com app to get news, views and more!

NEWS IN BRIEF
Check out our latest news updates from the Project...

MANAGING COVID-19

This autumn we'll be moving to the next phase of our Covid-19 response by introducing the Covid Managed Project – moving to a managed approach from a crisis phase. This does not change our focus, which remains on keeping people safe and protecting Project progress.

We will build on the huge benefits seen from the roll-out of the vaccination programme, and once the Covid Managed Project is live, Site access will require proof of double vaccination or a valid negative test.

If you are double vaccinated, you can demonstrate your vaccination status by either visiting the North or South plaza reception buildings 24/7 or keeping an eye out for the drop-in sessions in the canteens. For more information, visit the Covid Hub on teanhinkley.com, where you can find Frequently Asked Questions.

We recognise that not all workers are able to, or wish to have, the Covid vaccination. For these team members, there will be a process to complete a weekly Covid test and submit results to the Covid Cell for Site pass activation. This testing process will begin later this year, so keep an eye out for further communications.

Find the latest information on our Covid Managed Project on the Covid Hub on teanhinkley.com.



MEH ALLIANCE CONTINUES PROGRESS ON SITE



In the Raw Water Storage Liaison Gallery (1HGE), painting is being finalised, and a stock of piping and electrical supports is being prepared to support the next phase of infrastructure installation and welding. In parallel, work continues in the Unit 1 Electrical Building (HF) through the installation of supports.

Preparations have commenced in support of the start of construction in the Unit 1 Safeguard Building (HL1/4) in late November with the associated rooms being forecast for handover, from Main Civil Works (MCW), on or around Tuesday 23 November.

Commencement of construction in the Safeguard Building also aligns with the release of the Secondary MEH Bulk Hold Point (a Hold Point is an approval step for the next major phase of works).



ELECTRIC PACE: Adam Hastilow surveys plans for the Electrical Building as supports, brackets and cable trays are installed (top).

CONTINUOUS IMPROVEMENT

LEARNING BRIEFS: WHAT'S IN IT FOR ME?

At HPC one of the ways we communicate learning is through Initial Event Briefs and Learning Briefs. An Initial Event Brief communicates the key facts, immediate learning, and recommended actions directly after an event has happened. The subsequent Learning Brief communicates further detail upon conclusion of an investigation.

The Project issues these briefs to a range of stakeholders both internally and externally, who in turn share their learning with the Learning & Improvement team.

WHAT'S IN IT FOR ME?
Initial Event Briefs and Learning Briefs are a valuable way of sharing learning and experience that can be used when planning a job, setting to work or compiling lessons learned reports.

HOW CAN I SEE THEM?
You can search for all past briefs, along with flash alerts and external learning, via our Learning Library on teanhinkley.com.

MAINTAINING ZERO HARM

Last month's Zero Harm Week saw thousands of you join webinars and drop-in sessions to understand how to set yourself up for safety. With the number of working hours being undertaken each month significantly increased from this time last year, the key messages of Zero Harm are more important than ever. And though Zero Harm Week has passed, the message is simple: Zero Harm is 24/7.

Getting home safe at the end of your day is the best gift for your friends and family, so think not only about the actions you take to do this, but how you can help your teammates to do the same. Zero Harm is all of our responsibility, so check in on others working alongside you and challenge any unsafe behaviours – there is no job so important that it cannot be done safely.

LEARN MORE ABOUT ZERO HARM
If you missed out on any of the week's activities, or would like to revisit some of the videos or key messages, including learning what Zero Harm means to Simon Parsons, NI Area, Site and Civils Director, head to the Zero Harm Week Hub at teanhinkley.com/content/zero-harm-week-hub-2021.



AND THEY'RE OFF: Cyclists set off from Washford Cross Park and Ride after a last-minute intervention from HPC.

KEEPING THE AIR AMBULANCE ALOFT



When the organisers of the Coast to Coast Cycle Challenge needed help laying on this year's event, we were happy to assist.

The Covid pandemic meant the 55-mile ride, which is Dorset and Somerset Air Ambulance's main fundraising event, happened much later than normal this time.

As a result, it was unable to leave from its traditional starting point in Watchet.

After meeting the charity's organisers, Jason Lee, the Project's Off

Site Operations Delivery Lead, was able to arrange for the 250 riders to set off on the 10th annual fundraising event from Washford Cross Park and Ride instead.

Jason explained: "Without our help, they would have struggled to find another location that could support that number of cyclists, buses to get people there, and the transport to get the bikes to the starting point."

"The Air Ambulance supports the HPC Project, so we were only too pleased to lend a hand."



AWARD WINNERS: The Bylor and Sarens teams received the award and £100 gift voucher.

LIFTING US TO NEW HEIGHTS

The Heavy Lift Crane (HLC) teams from Bylor and Sarens have been recognised in the recently reinstated lifting awards for their excellent work during September, which saw them carry out three critical path heavy lifts in one week.

Neil Coles, NI Lifting Engineer, said: "The heavy lifting operations executed using the Sarens SGC-250 Heavy Lift Crane form a major part of the critical path works for the Project. Due to the critical nature of these works there is immense pressure on the teams to get the work completed safely and on time."

"That the teams could finish the planning and set-up and then safely and successfully complete three major lifts within a short duration is testimony to the expertise and dedication of those individuals."

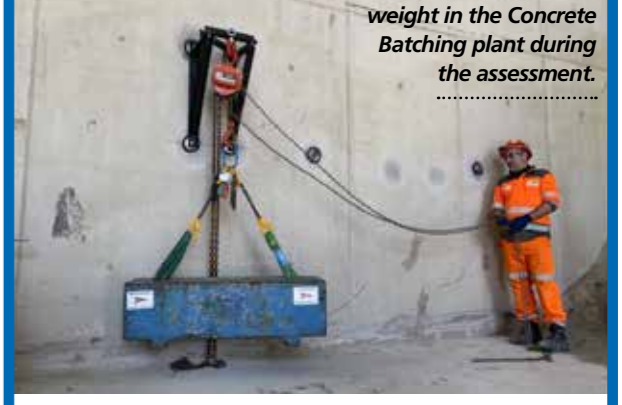
"Therefore, we chose to recognise this exceptional performance by awarding the Bylor and Sarens HLC teams the Monthly Lifting Award for September."

The award, presented by Garrick Nisbet, Lifting Manager, and Francois Swanepoel, Bylor's Lifting Lead, in October, was accepted by Paul Fry, Senior Project Manager, Team Precast and Heavy Load Crane. The teams also received additional prizes in the form of a £100 gift voucher to the Babbling Brook Inn and a selection of merchandise from one of the Project's lifting contractors.

A SEPTEMBER TO REMEMBER
Paul explained the work his team had put in: "Weeks of careful planning and teamwork culminated in the safe delivery of three lifts, totalling 1,530 tonnes, during the week of 13 September. These included the Unit 1 precast pool base, the Unit 2 precast south slab and the LB5 roof."

Marc Popovic, Bylor's Appointed Person for K10, said: "The biggest challenges were the logistics and rigging sequence to safely and efficiently build multiple configurations in a tight timeframe. It was an impressive achievement from the whole Bylor and Sarens teams, which took a lot of hard work and intense planning."

KIT CORNER



TRIAL RUN: C-BLOCK bears a one-tonne weight in the Concrete Batching plant during the assessment.

A FASCINATING FASTENER

What is it exactly?
C-BLOCK™ is a non-intrusive and heavy-duty fastener that's being co-developed by EDF and Cold Pad, a supplier of bonding and fastening products based in France. It offers a quick, reliable and durable fastening solution for a range of applications on concrete walls. In simple terms, it's a safer and quicker alternative to drilling, that protects the integrity of the surface while increasing safety. The fixing point bonds directly to the concrete without any need for drilling, but is strong enough to withstand earthquakes. It is intended for first use in the UK in 2023.

What can it do?
Its applications could include both temporary and permanent uses. From providing fixing points for lifting and scaffolding, to supporting pipes and cable trays.



HIGH TECH: A close-up of the C-BLOCK.

What benefits does C-BLOCK offer?
An assessment of the fastener has been carried out on Site involving EDF, Bylor and the MEH Alliance where dowels and C-BLOCK were compared. C-BLOCK was judged to be twice as fast to fit for the same cost. Not only can it be removed with no impact on the concrete surfaces, it can be fitted by a self-supporting power tool. This creates lower vibration for the operator and reduces the risk of musculoskeletal disorders.

READY FOR AWARD SEASON

This month we'll be holding our annual HPC Excellence Awards at Somerset County Cricket Club's County Ground, and we're looking forward to celebrating the successes of our colleagues, teams and suppliers.

On Thursday 25 November the gala will see Bronze, Silver and Gold awards presented across the themes of Project Delivery, Supply Chain and People and Behaviours.

You can check out the list of finalists – who make up the top three in each of the 13 categories – on teanhinkley.com. And look out for the full list of winners and pictures from the event in the December issue!



+++ SPECIAL FEATURE +++ SPECIAL FEATURE +++ SPECIAL FEATURE +++ SPECIAL FEATURE +++ SPECIAL FEATURE +++

LEARNING LESSONS FROM QUALITY WEEK '21



Refreshed quality commitments, unusual geometry, how to cut carbon emissions and Europe's largest battery – these have been just some of the highlights of our 2021 Quality Week (08-12 November). They have all been part of the theme for the week's activities, which is about improving to sustain good results. Hanna Kowalczyk, Quality Assurance

Officer, said: "Throughout the week, we have been asking everyone to consider the implications of their actions in reducing waste, saving time and only using the materials that we really need. "In particular, we underlined the point that 'I do it right first time' is a commitment that allows us to improve products, people and the planet every single day."



A QUEST FOR QUALITY: Safety and quality are key considerations for everyone working at HPC.

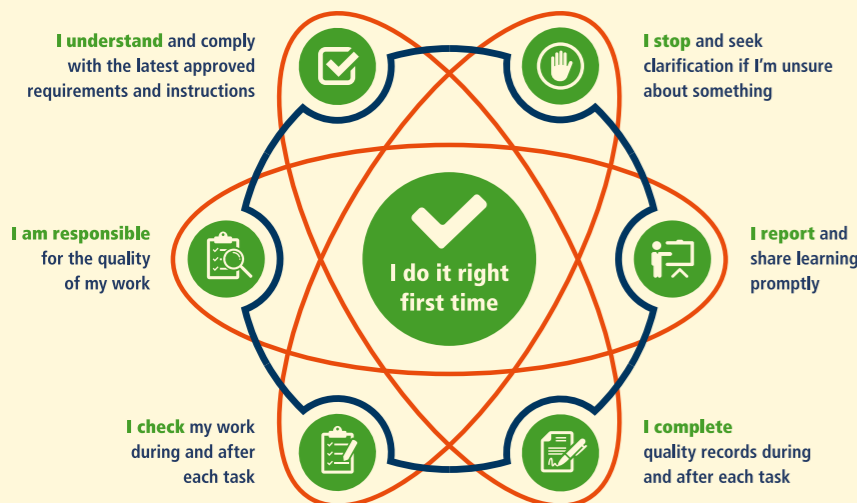
A FOCUS ON NUCLEAR SAFETY

Tom Hughes, Nuclear Safety Culture Lead (pictured, right), explains the rationale behind our refreshed quality commitments and why there is an even stronger focus on nuclear safety as we look towards the operational life of our power station.



"As we transition through the civils phase into the installation of mechanical, electrical and nuclear systems, then to commissioning and operations, the importance of keeping nuclear safety at the forefront of our minds becomes greater and greater. The 'Quality Commitments' campaign has always simply summarised what we expect of everyone in support of nuclear safety during the current Project phase. This simple visual refresh makes the link between these commitments and the future nuclear safety of our plant even clearer."

OUR QUALITY COMMITMENTS



THE SHAPE OF THINGS TO COME

Dr Paul Shepherd (pictured right) was our keynote speaker for the week and is a Reader in Computational Design at the joint Department of Architecture and Civil Engineering at the University of Bath.



Paul and his research team focus on how design choices massively reduce carbon emissions throughout the construction process.

He explained: "When I first started out in engineering practice, I was helping to design crazy shaped buildings, but the crazy shape was just to look good. It wasn't sensible structurally. Now we're running research projects where we're taking material out of buildings by using different geometrical shapes as part of the structure.

"If you think about concrete, it's really strong in compression but much weaker in tension. The traditional way to deal with that is to bang steel bars into the concrete. But if you can just get

the right shape in the first place, the concrete will be strong enough for the job by itself."

RIGHT FIRST TIME Modern design techniques are helping us to do things right first time too. "Computers allow you to do a lot of experiments digitally, so ideas that are destined to fail do so before you've wasted any material. And robots have got the quality control and the 'reproduceability' to get things right first time, every time."

Head to teamhinkley.com to hear more from Paul and his thoughts on design, sustainability and right first time.

Read more on the teamhinkley.com app.



"This Quality Week has a particular focus on right first time. That means doing the same thing right first time, every time, to get sustainable, great results for HPC. We are building a nuclear power station with a nuclear legacy, which will generate clean electricity for 60 years, and we will do that based upon our commitments to quality. If you don't understand or appreciate what those commitments are, please take the time to find out."

Simon Parsons, NI Area, Site and Civils Director



HEROES AT HPC: Our Road Safety Heroes provide first response support should any related incidents occur.

ROAD SAFETY WEEK

Each year at HPC, we mark Road Safety Week (15-21 November), organised by UK-wide road safety charity BRAKE. This year's theme is 'Road Safety Heroes' and will see us celebrating those who work as road safety professionals and the heroic work they do, as well as looking at how we can all play our part to make journeying on the roads safe for everyone.

Drivers, please respect the Site speed limits, adhere to driving legal requirements and respect pedestrians. Pedestrians, please use the crossings correctly; only cross at designated crossing points, and ensure that approaching drivers have seen you and are slowing/stopped before proceeding to cross.

HPC'S ROAD SAFETY HEROES

At HPC we have a number of Road Safety Heroes, including the Fire and Rescue Service, HPC Police, Hinkley Health, Site Operations Duty Management, Security Control Room and the Traffic Management team. It is these heroes who provide the core first response for any vehicle or road-based incident on the Project.

On average, five people die every day on the road in the UK and many more are seriously injured: every one a preventable event.

Travelling on rural roads can be particularly hazardous, and with many of our Project team walking, cycling or using motorcycles, they are at a greater risk than those travelling by other means.

SAFETY ON SITE

It is equally important to pay attention to road safety as you move around Site, either in a vehicle or on foot. Everyone has a part to play when it comes to road safety on the Project.

GET INVOLVED

This year for Road Safety Week there will be a number of activities for you to get involved in, including seeing crash cars on display at Junction 24 and South Plaza, a driving simulator and the chance to win one of 50 breakfast vouchers in our Road Safety Quiz. There will also be demonstrations and Plant Vehicle Pedestrian Interface (PVPI) inspections conducted.

There will also be a number of different webinars to join, including first response recollections from the Fire and Police services, lessons from a fatal workplace accident and advice for vulnerable road users. Look out too for the road safety-themed daily safety messages and other resources, and there will be some emergency exercises taking place in order to test our contractor teams and emergency first responders on Site.

Look out for more details on teamhinkley.com, including resources offering advice to keep you and your colleagues safe.

On our local road to travel to Site, the C182, there were two fatal road traffic incidents in 2020.

REMEMBER HPC'S LIFE-SAVING RULES:



I never work or drive under the influence of alcohol or drugs



I always wear my seat belt and reflect speed limits



I never use a handheld mobile phone while driving

TURN TO P12 FOR YOUR CHANCE TO WIN A DASH CAM.

NEWS IN BRIEF

Check out our latest news updates from the Project...

CHAPLAIN'S CHAT

Site Chaplain Ewen Huffman explains how he's spreading the load...

It's such a privilege being your Chaplain and the calls on my care are growing. Contrary to some strange rumours, I'm not leaving. In fact, I'm spreading the load and passing it on. This means more care, not less.

Over the next few months you may see other folks in Chaplain shirts around the place as I will have three or four Associate (Volunteer) Chaplains joining me for a few hours each week. The first of them has already started: Chris Pollard, who is SPS's very own Chaplain at J24 or on Site on a Monday morning. As with me, they will be chaplains to all faiths and none, and impartial listening ears, buddies and signposts to those who can help more. I hope two more will join by the end of January. And if it works, who knows, we might get more! More variety is always welcomed and needed. And chaplains bring a special kind of needed pastoral and spiritual care to Site.

However, you'll probably get a sneak preview of them all as we bring Christmas cheer and all sing carols in December – keep an eye out for the dates!

And talking of variety: we're going to have an inter-faith panel and discussion on Thursday 18 November at 2-3pm. Everyone is welcome to join, and there'll be more info to come on that on [teamhinkley.com](https://www.teamhinkley.com).
Your friend and Chaplain, Ewen.



SAFETY ON POINT

Dan Ball, Vehicle Presentation Supervisor, Somerset Passenger Solutions (SPS), feels more confident in his role after health and safety training.

How does safety fit into your role?
"Safety is in every element of my and my team's work and is always at the front of our minds."



What does safety mean to you and your team?
"It is not only ourselves we are keeping safe, but the greater workforce at HPC who travel as SPS passengers. We take pride in ensuring all our vehicles are clean and safe to travel on."

Can you name a HPC safety learning you've experienced?
"There was a health and safety emergency preparedness drill exercise which I participated in recently. It involved a scenario where someone had a head injury after being hit by a bus. I now feel I would be more prepared and comfortable in an emergency situation like this."

A DAY IN THE LIFE OF... A GEOTECHNICAL ENGINEER

FROM THE GROUND UP



WHERE THERE'S MUCK THERE'S GEOTECHNICAL ENGINEER RACHEL TRICK AND HER SURVEILLANCE TEAM, MAKING SURE THAT OUR POWER STATION IS QUITE LITERALLY BEING BUILT ON SOLID GROUND.



RACHEL'S DAY...

08:30 Geologist Kristian Jovanov is usually in before me so we discuss the inspections from SONIMs (the Surveillance team's Inspection Request software where contractors input inspection requests for our team) and arrange who's attending and then split the tasks for the day between us. I also run through the previous day's inspection forms that are logged on the Field View system.

10:30 I've received a stability inspection request and head out to the Heat Sink area at Unit 2. Slope 70 is one of the slopes we've been monitoring for stability on a weekly basis. It has a slight crack on it but nothing has shifted and it all looks fine.

11:00 On the way back, I drop by the Backfill team in the W40 Gallery. I check the backfill material that's just been delivered to this area and check the moisture content and that the grains are the right size.

13:00 Every day we have a slopes meeting. We look at the data from the in-ground monitoring instruments, including piezometers to monitor the water levels beneath the Site. We also review the prisms and laser scans from various areas across HPC. Then we issue a Slopes Permit and catch up with Marcus Bonham, HPC Water Management System Manager, and the Dewatering team regarding the dewatering boreholes across Site. Marcus is also our link to the designer if we have a stability issue with one of the slopes, and helps support the water level reviews from the piezometers – the Site must be dewatered to allow works to continue.

Rachel Trick considers herself fortunate that she went to one of only three schools in Northern Ireland with geology on the syllabus. It gave her a lifelong passion for the subject – as well as an important role at HPC as the Site expert on geotechnical matters.

This means that Rachel and her team of one geologist and eight surveyors monitor all of our groundworks, slopes and excavations. They make sure we're on solid ground, not only for a safe construction build but for the whole life of our operational power station.

She said: "Helping to keep people safe feels like a big responsibility, particularly on a nuclear build. The work here is busy and varied – we get requests for support all the time.

"It's a challenge for a small team but I love my job. It's a fantastic opportunity to apply my love for geology to such a large and nationally important installation."



QUALITY INSPECTORS: Rachel Trick (left), Geotechnical SME, and Henry Evans, Field Engineer, run the rule over some excavations on Site.

14:00 Back in the office and I review some documents on Team Centre covering work on one of the Tunnel Boring Machines. It's a report explaining how they're planning to dig the tunnels for Intake 2.

16:00 More emails! I'm a woman with an unusual job, so I look through some requests to get involved in industry forums and talk about what I do. I really want to inspire younger people to follow their passion. I've just completed a video for students to promote STEM subjects in schools. In the first couple of weeks it got 847 views on YouTube. I was rather chuffed with that!

19:30 I go home to my six-year-old daughter. I usually cook in the evenings and we make a pizza together from scratch. I love baking too and my signature dish is Scotch pancakes!



BORIS AMAZED BY HPC

Five apprentices at HPC recently met Prime Minister Boris Johnson in Bristol to talk Net Zero during a discussion focused on Britain's low carbon future.

George Orford, Amy Miller, Thomas Roach, Cillian Ellis and Emily Hazelaar, who are all training to become Nuclear Engineers on Site, were accompanied by Chris Young, HPC Education and Skills Manager, and Tilly Spencer, Director of Edvance UK.

The group also met the Energy Minister Greg Hands, Education Secretary Nadhim Zahawi and Therese Coffey, Secretary of State for Work and Pensions.

Apprentice Emily said: "It was great to meet the Prime Minister and speak about apprenticeships on the Project. He was really interested in construction at HPC and the amount of low carbon energy it'll produce – he mentioned he'd recently flown past the Site and was amazed at its size."

EPIC ENGINEERING WINS AWARD



MAJOR WINNERS: The Balfour Beatty team, their supply chain and EDF with their award. Holding the award is Stuart Clear, Balfour Beatty Design Manager, who submitted the award with Pat Brady, Temporary Works Manager (back row, second from the left).

Congratulations are in order for the Balfour Beatty Marine Works team, who won a coveted prize at the Institute of Civil Engineers South West Civil Engineering Awards recently.

HPC's tunnels scooped the Project over £8m New Build Award, with the judging panel describing the scheme as an "epic feat of engineering on an awe-inspiring scale". The praise extended beyond the technical aspects though – the judges were also impressed by the team's resilience in overcoming challenges during the pandemic.

And the celebrations continued as the Secondary Lining team completed the permanent reinforced concrete works in the Liaison Gallery. It's now progressing to fix rebar and pour concrete on the crown in Outfall Gallery 1, and the invert in Outfall Gallery 2.

Over in Avonmouth, team members have welcomed the delivery of the Handling Alignment Frames and are currently fitting them to the head structures. These structures will support the heavy lift of the heads as they are placed on the Bristol Channel seabed, and provide guidance to the shaft casing installation in a future offshore campaign.

There's also plenty of activity going on with the Marine Works team onshore, as the dredging campaign comes to an end, while the Intake Tunnel 2 Tunnel Boring Machine is working away offshore (see P11 for its progress).

GROW A MO TO SAVE A BRO

This month is Movember, where participants grow their mo to raise awareness of men's health issues, such as prostate and testicular cancers and men's suicide. Since its launch, Movember has raised more than £400 million for men's health issues, with Prostate Cancer UK, our charity partner, being one of the main beneficiaries.

If you're taking part in the movement to change the face of men's health issues by ditching the razor and letting your 'tache run wild this month, let us know and send a pic to our email address (contact details on P2).



EQUIPPED FOR EMERGENCIES

The first RBS (Emergency Boron System) tank was successfully installed into the Fuel Building recently by Big Carl. The walls and corners of the tank were fabricated in Cherbourg, France, by Efinor and arrived at HPC connected with special frames called jigs.

The RBS is a critical part of the plant's safeguard system and would be used in an emergency or accident scenario. In fact, its design means it's usable even in the case of a blackout.

In the unlikely event the safeguard system is triggered, highly borated water is injected into the primary circuit, close to the reactor pressure vessel, to suppress the reaction. Learn why boron is used for this role in our Jargon Buster feature on P11.

The second RBS tank installation is planned for later this month. Once both tanks are installed, the team will surround the tanks with rebar and encase them in concrete. This will form the structure before the ceiling of the tank is poured in 2022.

MEET THE TEAM: SURVEILLANCE TEAM (BALANCE OF PLANT AND CONVENTIONAL ISLAND)

THE EYES AND EARS OF NUCLEAR SAFETY

TO MARK QUALITY WEEK, WE TALK TO BILLY TAYLOR FROM THE SURVEILLANCE TEAM (BALANCE OF PLANT AND CONVENTIONAL ISLAND), WHO SUPPORTS US IN BUILDING A HIGH-QUALITY, SAFE NUCLEAR POWER STATION.



Billy Taylor, Surveillance Team Lead, heads up the people who 'check the checker', working independently, to make sure plant and equipment is installed to the correct design, engineering and contract requirements.

He explained: "We're not responsible for construction works at HPC, but serve as EDF's independent eyes and ears from a quality point of view, so that critical activities are carried out in accordance with the works information and in compliance with Site licence conditions.

"That independence is vital because it adds the right value and oversight throughout all stages of this complex, multi-faceted construction programme." Surveillance is performed on a graded risk-based approach.

Billy's team is made up of three Construction Superintendents who manage eight Field Engineers and two industrial placement students.

Their remit is to cover all MEH Alliance works within the Balance of Plant and Conventional Island areas, as well as

TEAM TALK

Billy Taylor, BOP/CI Surveillance Team Lead, said:
"Each of us must understand the importance of quality during construction at HPC to ensure the safe and reliable operation of our power station."

Chris Tapping, Electrical Field Engineer, said:
"Quality is a system for verifying and maintaining a desired standard to confirm our plant is built correctly."

Michael Challenger, Mechanical Field Engineer, said:
"Quality improvement can serve as a catalyst for improved productivity."





IT PAYS TO BE PREPARED

Congratulations to Dan Barchus, Emergency Preparedness Lead, Kier BAM, for securing Project Star status for his outstanding contribution to health and safety on Site.

Dan has made a fantastic impression since starting his HPC journey as a Slinger and Safety Representative, and progressing to become part of the EDF Emergency Preparedness team. He was nominated by three individuals for a Project Star award – which shows just how much his hard work is being noticed.

He's been acknowledged by his fellow team members for holding up the Project values even in the face of adversity, demonstrating positivity and clarity in his work to support diversity and inclusion, and equipping people with the information that is needed to be able to effectively handle emergency situations.

His passion and dedication to the subject of emergency preparedness hasn't just led to him being recognised by his teammates – his work has contributed significantly to the emergency arrangements we have on Site which help keep people safe. For this, we are extremely grateful, so thank you and well done, Dan!



HOW TO NOMINATE

If you would like to recognise the efforts of one of your colleagues, email hpcprojectstars@edf-energy.com with your nominee's name, job title, company and the reason they demonstrate our HPC values.

SUDOKU TIME

Fill in the grid so that every row, every column and every 3x3 box contains the numbers 1 to 9. You can find the solution on page 12.

	8	2			4				
7				5	2			6	
6								2	5
				8	5			1	
	5			6					
	9		4			7			
8			2		3				4
	6	4						8	
		7	8			1			3

© Brainwarp

MEET OUR OTHER BIG CARL

Did you know we have two Big Carls at HPC capable of lifting loads that are heavier than anything or anyone else in the country? Covid-19 Cell Coordinator Carl Thompson recently competed in the qualifiers for the UK Powerlifting Championships and smashed two UK records.

Not only did he squat a staggering 370kg, he also lifted a combined 960kg by adding a 235kg bench press and a 355kg deadlift to his sequence. Both of these marks have beaten anything previously lifted by a UK powerlifter in the U125kg weight class – a fantastic feat!

He said: "My performance at the qualifiers exceeded all my expectations. Everything went exactly to plan on the day and I was buzzing afterwards."

Carl's achievement has landed him an invitation to compete in nine months' time against the world's top-10 powerlifters in his weight class in the US.

"I'm letting my body have a rest at the moment, but then I'll start all the hard work again to prepare for the world's best. It's a little daunting, but I'm not going there to make up the numbers. I'm targeting a top-five finish and then we'll see exactly how far that takes me on the day."



POWER UP: Carl Thompson (right), pictured with Davie Beattie, the referee for the qualifying competition (main), pushes himself to the limit to achieve success.

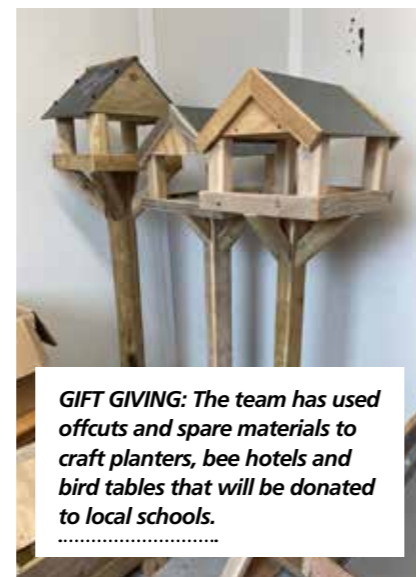
TOP OF THE CLASS

The Bouygues UK team at HPC is taking the message about caring for the environment into two Taunton schools – and leaving the children with some lovely examples of what you can create using waste materials.

Ben Skudder, HSE Adviser, will make presentations to all 900 pupils of Blackbrook Primary School, and about 300 7-11 year olds at St James Church School during November.

The team will hand over bird boxes and tables, hedgehog boxes, and insect and bee hotels all crafted by the team from recycled wood, as well as concrete moulds of butterflies and turtles, and planters for the schools' gardens.

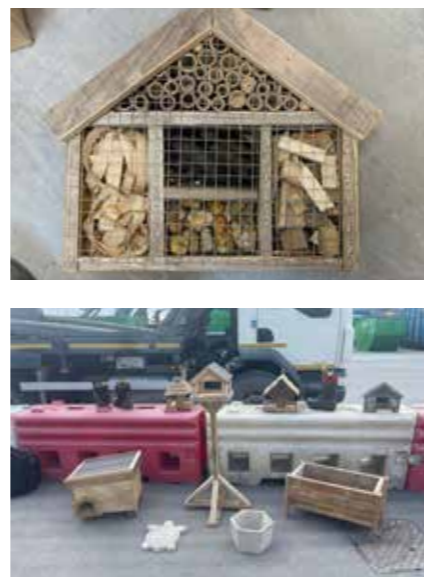
Ben said: "We were thinking about how we could reduce waste as a Tier 1 partner at HPC. Our carpenters were putting up some temporary signage one day, and it suddenly occurred to me that the stands would be ideal for a bird table. It all snowballed from there."



GIFT GIVING: The team has used offcuts and spare materials to craft planters, bee hotels and bird tables that will be donated to local schools.

WASTE MATERIAL

Adam Cox has put together a small team of about half a dozen 'regulars'. They work up the items whenever they have a quiet moment and we have suitable material in hand. "It started out in a small way but now we're really proud of what we've been doing."



There are already plans to pay similar visits to other local schools when the stock of recycled items has been replenished.

Ben added: "We want to encourage the children to think about how they can help the environment – even small things like switching off lights – and recycle materials for other purposes."

My Pick Joanne Griffin, Administration Assistant, Somerset Larder



Favourite film?

"Lost Boys is the best film ever! It has a cracking '80s soundtrack, incredible fashion and an amazing all-star cast. There's also plenty of laughs and scares along the way."



Favourite hobby?

"Visiting National Trust properties and gardens. It's a great excuse to leave the housework behind and enjoy the outdoors in wonderful – and sometimes historic – settings."

Favourite food?

"Without a doubt, the classic home-cooked roast dinner. It evokes childhood memories of Sundays at home with the family eating together around the table. Even now I'll happily cook a roast on a hot summer's day!"



OUR SITE IN FOCUS

If you have any questions about the work we're doing (or what will come afterwards), send them to nuclearsafetyculture@nnb-edfenergy.com and look out for the answers in a future issue of The Point.

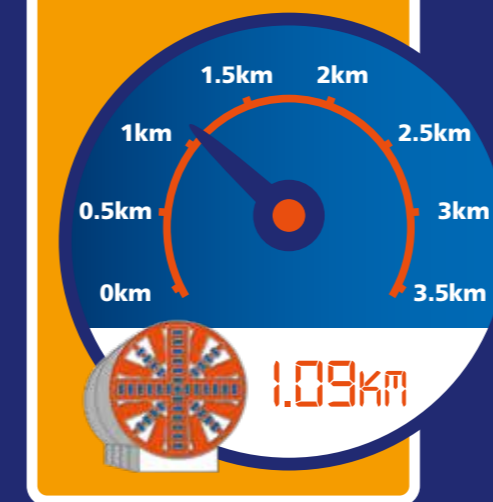
EACH MONTH WE'LL FOCUS ON DIFFERENT AREAS OF OUR HUGE SITE WHERE WORK IS ONGOING. WE'LL SHINE A SPOTLIGHT ON PROGRESS AND LEARN MORE ABOUT BUILDINGS AND AREAS AND WHAT ROLE THEY'LL PLAY AS THE SITE BECOMES OPERATIONAL LATER THIS DECADE.

Major delivery

Three condenser units made the journey across Europe to Avonmouth along with our low pressure rotor (read more on P1). These units will sit below the turbine and condense the steam from the turbine.

BEATRICE'S TRACKER

Beatrice continues to make good progress mining Intake Tunnel 2. So far, the 150m-long Tunnel Boring Machine (TBM) has installed 680 rings and covered a distance of 1,093m on its 3,500m journey.



Bigger Carl?

On P10 meet Carl Thompson, who is challenging the Giant Sarens Crane for the 'Big Carl' title, and learn more about his exploits as a powerlifter.

EYE ON SAFETY

Last month we installed one of the ultimate diesel generator fuel tanks in the Unit 1 Emergency Diesel Building.

The generators that sit in this building form part of our safety system to ensure we can cool the fuel used in our reactor at all times. Two sets of generators are installed that can be called upon to provide emergency power to the power station's cooling systems: emergency diesel generators and ultimate diesel generators.

This tank provides the fuel needed to run one of the two ultimate diesel generators in Unit 1. These generators are a back up to the back up, and would be used in the extremely unlikely event that the emergency diesel generators failed to start when required.



JARGON BUSTER

Spotted or heard some jargon on Site that you want busting? Let us know and we'll put it to our Site experts to clear things up for you. From what our buildings do to how we stay safe, we provide a simple explanation.

TRIGRAMMES

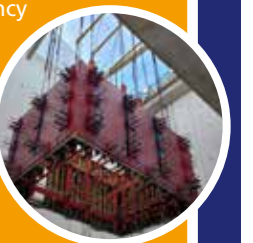
You might have noticed we use a lot of three-letter codes for plant systems and equipment. People often ask what these mean – unfortunately they do not have direct translations as they originate from the French 'trigramme' coding system, used in France on our sister plant, Flamanville 3. A list of these is available – email nuclearsafetyculture@nnbedfenergy.com for a copy.

ELECTRICAL BUILDING

The Conventional Island Electrical Building (HF) contains all the equipment (such as cabling, switchgear and batteries) that provides electrical power to pumps, valves, heating, ventilation and air conditioning (HVAC), control systems and lighting in the Conventional Island. Our turbine generator set, which will be the largest in the world, would be useless without the vital support systems and equipment housed in this building.

WHY BORON?

With the first Emergency Boron System tank (RBS – another trigramme!) installed in the Unit 1 Fuel Building, you might be wondering why we use boron. Boron is a lightweight metallic element that happens to be an excellent neutron absorber. This means that it can slow or stop the nuclear fission process by absorbing neutrons before they are able to continue the chain reaction with other uranium atoms. It is used on nuclear reactors in control rods and also (in the case of the RBS tank) as an additive to reactor coolant.



DON'T FORGET
Keep an eye out for our next issue, out in December!



GET ONLINE:
You can also stay up to date with the latest news and information about HPC with the teamhinkley.com app.



GET TO THE POINT: Got a story to share? We'd love to hear about it. It's simple to get in touch with us using the contact details on page 2.

WIN WIN WIN
Check out page 12 for your chance to win a Motorola dash cam.

++ COMPETITION ++ COMPETITION ++ COMPETITION ++ COMPETITION ++

WIN A MOTOROLA DASH CAM

CLOSING DATE
Monday 29 November 2021.



It's Road Safety Week on 15-21 November (see page 7), and we're marking the occasion by giving one lucky winner a Motorola dash cam to help you stay safe when driving.

This dual camera dash cam is capable of monitoring both the front and rear of the car, and can display the HD picture on a two-inch full LCD screen. Its front camera has a 150-degree viewing angle that ensures you stay aware at all times – even at night, as it has clear night vision.

The cam's G-sensor activation recording means that if your car is involved in a collision

or hit while parking it will begin recording automatically.

As well as built-in GPS for location and speed logging, which can be shared via WiFi, the dash cam also has a function to connect smartphones and their USB charging cables.

To be in with a chance of winning and staying safe on the road, simply tell us:

Q On average, how many people die every day on the road in the UK?

A) 2 B) 5 C) 10

Send your entry to thepoint@44communications.com before the closing date of Monday 29 November 2021. Good luck!

Open to all HPC team members aged 16 or over. By entering you give The Point permission to contact you via your supplied details should you be chosen as the winner. Entrants' data will not be used for any other purpose and will be deleted once the prize draw has taken place. The prize is non-transferable and cannot be replaced with a cash alternative. The winner will be chosen at random from all eligible answers and the judges' decision is final.

CONGRATULATIONS to Lee Whitfield, Number 1 Mixer Driver – K5A, Bylor, who won a NutriBullet in the October 2021 issue!



BAT PATROL IN EFFECT AT HPC

At HPC, as part of the ongoing ecology monitoring on the Project and our environmental commitment, we complete a number of bat surveys annually to record how bats are using the habitat in and around Site.

These surveys include night-time transects, where ecologists will record any bats they see and hear, and monitoring bat recorders, placed in key locations, to record commuting activity.

Bats emit calls out to the environment and listen to the resulting echoes returning from various nearby objects, a process known as echolocation. This is done using ultrasound, and these calls are generally not detectable to the human ear, so specialist bat recording equipment is required.

BAT POPULATION PROTECTION

Features which have been built especially for bats near Site include bat boxes and a bat barn. These are inspected on a yearly basis and, where possible, the age and species of individual bats is recorded.

The Leisler's bat, pictured above, was found in woodland just south of Hinkley Point B in a specially designed bat box (though bats also roost in trees, buildings and caves). This species is one of the larger types of bat found in the UK, with a wingspan of up to 32cm. Like all British bats, its diet consists solely of insects such as flies, moths, caddisflies and beetles.

In the UK, bat populations have declined considerably over the last century. It is hoped that the monitoring work undertaken at HPC will help protect and enhance local bat populations for years to come.

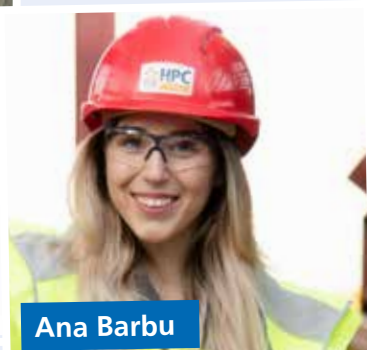


SPOTTED ON SITE!

CHECK OUT OUR FAVOURITE SHOTS OF HPC'S GREAT TEAM MEMBERS OUT ON SITE THIS MONTH!



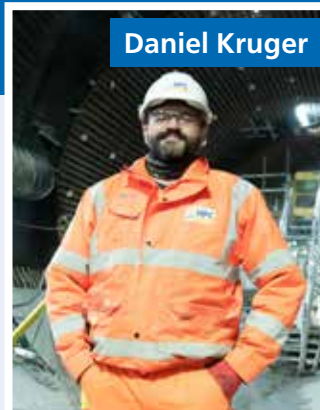
Alfie Dani



Ana Barbu



Dan Baker



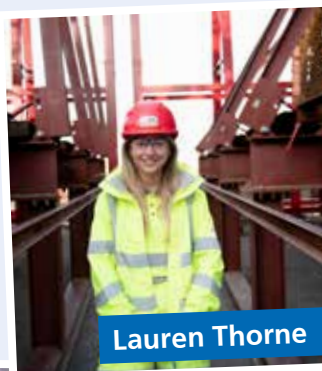
Daniel Kruger



Daniel Richards



Douglas Stewart



Lauren Thorne



Mohamed Osman



Paul Lyons



Rasa Sirutiene



Richard Edwards



Stephen Evans

Have YOU spotted our official Site Photographer Aran out and about on Site? If you see him, give him a wave and say hi! »



PUZZLE SOLUTION

Here are the answers from page 10.

5	8	2	6	3	9	4	1	7
7	4	9	1	5	2	3	6	8
6	3	1	7	8	4	9	2	5
4	7	6	3	2	8	5	9	1
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8	1	5	2	9	3	6	7	4
3	6	4	5	7	1	2	8	9
9	2	7	8	4	6	1	5	3