







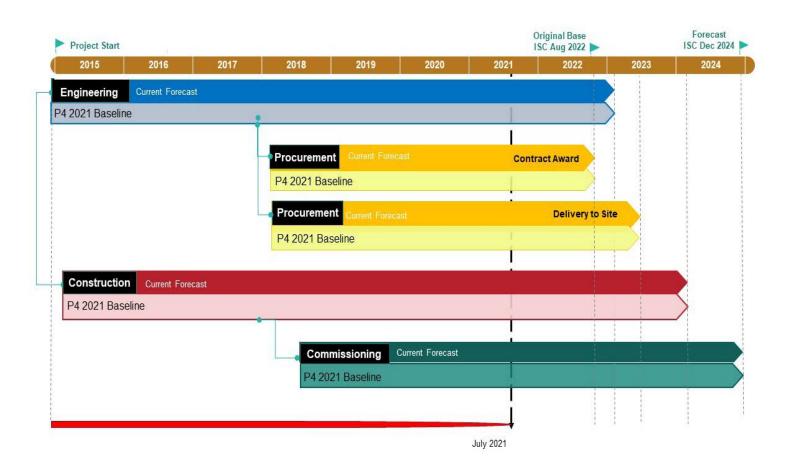
This issue: 60te Package Handling Crane 2 000 000 hours RoSPA Gold No.5 Manufacturing delivery Where are we up to?

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Project timeline

Where we are and where we are going



Project update

We've done it again!



Geoff Blacklock, HSE Lead has the great pleasure informing you all that the BEP Project has once again achieved a RoSPA Gold Medal (5 consecutive Golds) Award.

Organisations receiving a RoSPA Award are recognised as being world-leaders in health and safety practice and every year, nearly 2,000 entrants vie to achieve the highest possible accolade in what is the UK's longest-running H&S industry awards.

The above achievement is a testament to all the hard work that has been demonstrated by everyone associated with the project for 5 consecutive years.

I am sure, that given the same vigilance and commitment which has been shown and the continued improvements to date there will be many more significant achievements by this Project Team.



NDA and IPAG Visit

A satisfactory visit took place on the 13th July following up on the their December 2020 visit to see what improvements have taken place since then.

Present were: Karl Mason SL, Dave Beirne SL, Mark Wareing NDA, Howard Carpenter IPAG, Richard Veazey IPAG, Tom Hyland JV, Phil Hammond JV, Dave Stockdale JV, Shaun Birkett JV, Nigel Thornthwaite JV.

60te Crane Factory trials

60t PHC Configuration Prior to Trials Commencing



Trolley Lift and rotation



Link arms lowered to join the north and south girders



.4

KA KONECRANES







LT Catenary frame lift

60te Crane Girder delivery to site and transfer











60te Crane transfer











Arrival of the North girder of the Package Handling Crane and components. Right roof ready for opening.



750te Crane assembly



60te Package Han



dler Crane Girder lifts







Package Handler Crane Trolley lift







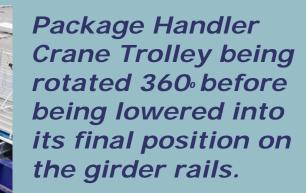
Package Handler Crane Trolley lift, up & over the parapet & down into the roof opening...





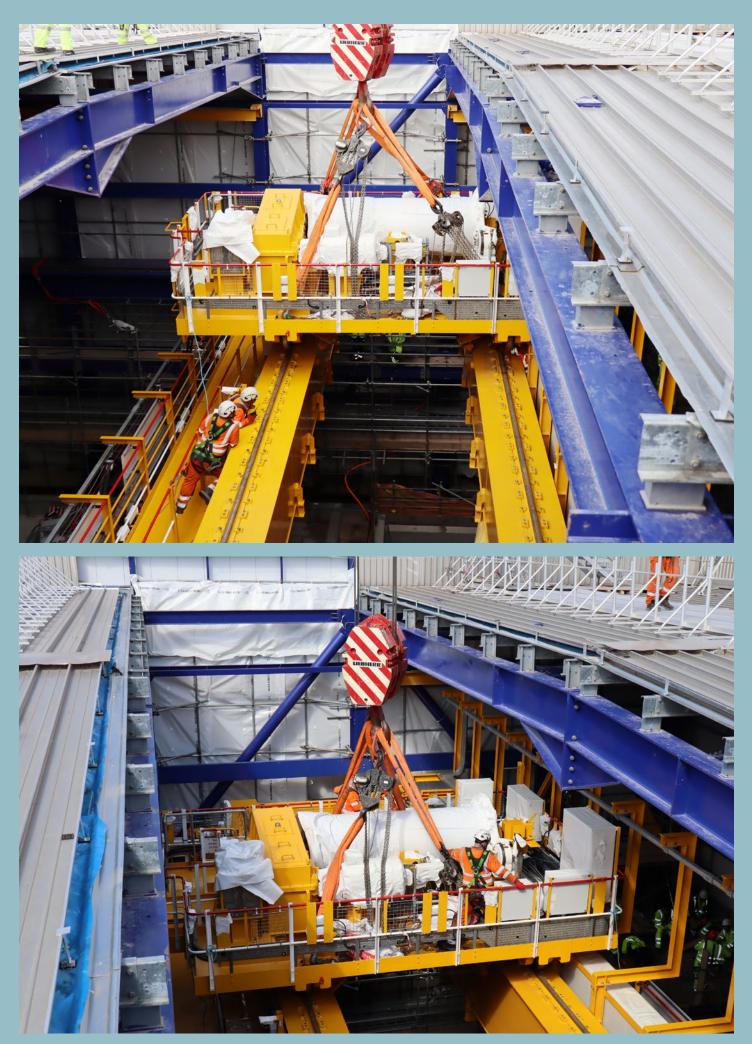






E C





Construction: progress inside







Preparations for the installation of the 60te crane mean that large areas of the building are now shrouded in protective sheeting, for when the roof is open to enable it's installation.



TCA039 / 40 Re-bar Installation.



Waste Treatment cell, painting finishes above and below.



Progress inside cont...



Inside the Compressor House





Primary containment holds released after site visit

Construction: progress outside



RRRB Steel Erection – Final staircase module









Inside the Compressor House



General external views showing the extent of the completed cladding .



Cladding, progress on the rear of the Grout Plant.

We must continue to Improve our Safety Focus

Despite the achievement, we must not be complacent and the Safety Leadership Team has issued the BEP Safety Improvement Plan such that we can continue to improve our focus, reduce hazards and improve the safety of the project environment. The BEP Safety Improvement Plan (SIP) has been jointly developed between JV and Sellafield so that we continue to strive for improved performance. This is a comprehensive document but a few highlights are tabled below. If you would like to know more about the details of the SIP please ask your Line Manager, Lead Team or Safety Team

ΤΟΡΙϹ	AWARENESS AIM	EXAMPLES
ENVIRONMENTAL	Raise awareness of site environmental arrangements throughout the project to ensure compliance is continuously maintained	 Individuals to consider and respect environmental impact as they would conventional safety. Comms & training on/off job as required.
HEALTH & WELLBEING	Individual knowledge and understanding of all aspects to 'Health & Wellbeing' and its impact and benefits	Health and Well-being Climate Survey. Develop plans to improve mental health and stress, physical factors such as sleep, fitness and illness plus general job satisfaction.
SAFETY	 PROCESS & PROCEDURES – Personal responsibility for understanding and following project processes and procedures LEADERSHIP – credibility of safety leadership (behaviours, messages, accountability) PLANNING – planning integration and ownership at the appropriate levels (planning each job / integration of short and medium term planning) LEARNING – reduce repetitive nature of incidents, sharing and communication, adaptability and approach BEHAVIOURS – consequential thinking and recognising behaviours are a choice 	 Refresh and communicate procedures on IMS. Ensure access to all/Sharepoint and train users Review and reinforce roles and responsibilities Review and improve on boarding Planning – Improve Line of Sight, Safe Systems of Work Review Terms of Reference for Safety Leadership Team Review and develop WI 359 – Monitoring and Review Town Halls to communicate to project team Continue to develop behaviours programme with DEKRA such as error traps/prevention
SECURITY	AWARNESS – Raise awareness of site security arrangements throughout the project to ensure compliance is continuously maintained	 Clear Desk Muster/Swipe in-out Review physical site security arrangements



HOURS WITHOUT A LOST TIME INCIDENT

The BEP project is proud to announce we have worked over Two Million Hours on the BEP Project without incurring a LTI. It is great news that the Project (Sellafield Ltd, Joint Venture and Supply Chain) have kept our combined team safe. Everyone on the project has played a part in reaching this figure including:

- Our Blue Collar/Tradespeople who provide us with Mechanical, Electrical and other practical skills.
- Our Supervision and Construction Management Team based at the Sellafield site

• All of our delivery and functional teams from across the disciplines, based at Washington House, Sellafield, Stockton, partner offices and of course those still working from home (including Commissioning, Commercial, Engineering, Health & Safety, Procurement, Project Controls, Project Management, Quality, Support Services)

Our valued Supply Chain

Progress as of 27-07-21 on our major goals for the year.

TARGET DATE ACTIVITY ID ACTUAL DATE		MILESTONE	APM	LEAD
08-02-2021	PR36-1QA4	Delivery of Air Compressors/ Recievers to Stores/ Site	PW	KS
16-03-2021 11-03-2021	PR07-30631	Delivery to Site of In Cell Stands & Fabrications – Waste Handling Table Supply (Pkge 07)	GH	KS
24-5-2021 18-03-2021	CBCM0331510xx	Box Operations Cell Maintenance Install BOC Handler onto the rails.	GH	SB
28-5-2021	MSALLDF	JV Design Freeze: All Essential Configuration Base- line Documents issued.	n/a	KS
29-07-2021 1-06-2021	CWCM0217510c	Locate System 121 Bogie onto Rails. Delivered and moved into place.	GH	SB
06-08-2021	C1311691430	131 Rails installation completed, inspected & ICL Signed.	VF	SB
06-08-2021	СWC- M0214600ух	Waste Treatment Cell Install Maintenance Equip- ment Grid Line11-9 (520 Hatch / SS Cladding & local Kit)520 Hatch installed, inspected & ICL signed. (WTC works to allow LWB Handler move, complete)	GH	SB
12-08-2021	PR10-90061	Waste Handling Robots ready to deliver. (Pkge 10). Successfully Inspected for release, certified & signed for A200 Robots.		KS
22-09-2021	CZZTCAO69370	Active Effluent Cell Temporary Construction Area Opening (TACO)21 Phase 1 Closure & pour com- plete.		SB
30-09-2021	MSALLDOC	JV Detailed Design packages & configuration baseline documents complete.		KS
07-10-2021	C1331182720	System 133 Rails installation completed, inspect- ed and ICL signed.		SB
22-11-2021	021 C840MS85% Installation of electrical and instrumentation primary containment in the whole BEP building at 85% (Approx.9,465 linear metres) based on 8/2019 PDMS Model		JD	SB
14-01-2022	CWCM0212341	Vertical Cell Door - Raise Door on Recovery Sys- tem and move Long Wheel Base	GH	SB
21-07-21	CZXM260	60Te PHC Completion of bulk installation	VF	SB
23-09-2024	MSJV-EPCC05	JL Planned Completion - End of Inactive Safety Commissioning (ISC).	n/a	

Legend: APM:PW: Paul Williams, GH: Gary Hope, VF: Vince Fleming, JD: Jeff Dutton Lead Team: KS: Kevin Smith, SB: Shaun Birkett



4. JV Design Freeze:

All Essential Configuration Baseline Documents issued.

The achievement of the Design Freeze milestone means we have completed the first of the two design critical milestones this year and further demonstrates the project's commitment to deliver BEP to programme. This milestone marks the end of the preliminary design phase with all essential categorised documents having been frozen with the completion and close out of all major HAZOPs and associated actions.

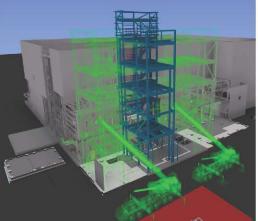
The deadline was at risk until a few days prior to completion and so the team worked collectively and with great determination to meet the date required. This important milestone could have only been achieved with SL and JV Design and Engineering teams' collaboration and concerted effort. Why was it important?

The project had taken the approach at the outset for engineering to focus on the delivery of design packages to support construction work fronts. Achieving the milestone:

Demonstrated that the maturity of the design is sufficient across all design packages

• Provided confidence to the JV partners, SL Exec and NDA that the project can deliver to the required stringent milestones.

Built an environment of shared success as a result of pragmatic and collaborative working



• Demonstrated that the programme in place is achievable providing a level of confidence and predictability for future activities.

between the JV and SL engineering teams.

Andrew Sharman JV Snr. Engineering Manager, Roger Hyde SL Project Engineering Manager

"An excellent piece of work by everyone involved...You should all be proud of this achievement not just for what you delivered but how you delivered it."

Bill Holmes Project Delivery Director



Image source:Construct Ed & emerji



5. Locate System 121 Bogie onto Rails. Delivered and moved into place.



The 121 Skip Bogie was successfully installed into the Waste Treatment Cell (WTC) 2nd June 2021 ensuring that this project milestone was achieved seven weeks in advance of the target completion date of 29th July 2021. The achievement of this milestone is the result of collaborative efforts between Project Team, Qualter Hall and Sellafield Ltd.

The Bogie and Rail Assemblies were detail designed, manufactured and tested by the Vendor Qualter Hall with assurance provided from Delivery Team and SL Engineering

team. Collectively they have resolved difficult and challenging technical issues and reacted to an increasingly challenging programme due to the removal from service of the Handling Crane used to lift the 121 Skip Bogie into the WTC to ensure the target date was achieved.

The 121 Skip Bogie rails were released ahead of the Bogie completion and were installed by the Mechanical Installation Team. This scope was completed seven weeks ahead of the planned date and enabled the Bogie to be loaded straight onto the rails rather than being stored within WTC. This not only created additional storage space within cell that enabled other construction activities but also mitigated multiple lifts of the Bogie.



Key Personnel:

Given the challenges this is a significant achievement and recognition to the following persons is well deserved;

Stephen Pearce, JV Project Area Coordinator Mark Terpilowski, JV PAC Ian Wright JV Package Manager Phil Davies, JV Project Lead Engineer Andy Davies, JV Lead Engineer Mick Wowk, JV Mechanical Project Engineer Colin Goddard, QH Project Manager Gary Thompson, JV Quality Assurance/ **Control Engineer** Gary Marshall, QH Quality Assurance/ **Control Engineer** Mark Ogden, SL Mechanical Integration & Assurance Engineer Sean Bridgen, JV Inspector Peter Clark, JV Inspector Dean Kidman, SL Inspector





The installation activities for the 131 Top Opening Transfer Bogie Rail System was successfully completed on 22nd July 2021, 2 weeks ahead of its target completion date. This achievement is the result of great collaborative efforts between BEPDT JV, the Vendor and Sellafield Ltd.

With Rail Assemblies being detail designed by James Fisher Nuclear Ltd and manufactured by Steel Dynamics Ltd to the exacting standards necessary for the industry, and assured by the projects Quality Control Engineering teams.

The Top Opening Transfer Bogie (container) Rail System operates through three subterranean rooms in the Facility Building for an overall length of approx. 14m. The Bogie (not illustrated) will containing waste materials safely collected from operations elsewhere on the Sellafield site, it will run along the above rails before moving onto the next stage in the process.

The large quantity of welding required to install this system presented a significant challenge to the Construction Team in their attempts to maintain the specified tolerances for Rail Head Elevations and Eastings. The results achieved are the product of very high levels of Quality Control being applied to all welding activities in order to ensure repeatable results. These controls and the learning from experience associated with the work are now being applied to other similar installations in the project.

All of the Mechanical and Welding work was completed during permanent night shifts due to the COVID restrictions on personnel numbers, this presented additional challenges due to the impact this has on Engineering Support availability.

GOIECY

Given the challenges this is a significant achievement and we recognise the contributions of the following: CS&A Team & the Altrad Team

Key Project Personnel:

Mark Terpilowski	JV Project Area Coordinator
Mick Wowk	JV Mechanical Project Engineer
Gary Thompson, John	Musgrave JV QC Engineers
Barry Eckersley	JV Lead Surveyor
Waqas Ahmed	JV QC Inspector
Darren Morris	JV Project Lead Engineer
Rachel Scott	JV Snr. Mechanical Engineer
Simon Ellam	SL Mechanical IC
Mark Kendall	SL Construction Engineer
Paul Graham	SL Senior Construction Engineer

Key Supplier Personnel: Colin Cotterell JFN Project Manager Andy Parker JFN QA Engineer Carl Banks JFN Lead Designer



7. WTC Hatch, cladding & maintainance equipment installation



The achievement of this milestone enables the future transfer of the SWB and LWB Handlers into the Waste Treatment Cell, and the construction of a safe access platform to support subsequent Handler Installation works.

This milestone consisted of the following key site works:

1. **Installation of Box Liner Import Hatch B, Upper and Lower Guide Frames**: This large floor hatch acts has the main import and export route between the WTC and the Transfer Corridor and is a critical design interface for all WTC operations.

2. Completion of the local Grillage and Stainless Steel Cladding: All the local grillage and cladding in the WTC area has now been completed by Shepley Engineering Ltd with technical support from the JV Engineering team; this includes the complex tie-in with the Upper Guide Frame.

3. **Installation of Closure Plate on Box Liner Import Hatch A**: This is a legacy item that is no longer in operational use; the installation of this Closure Plate is required to seal this hatch and balance the Ventilation System that services the WTC.

4. Installation of the C5 Ventilation Inlet Shield Block and Support Bracket.

5. Installation of Shield Plugs within Box Liner Import Hatch B.

One of the main contributing factors for the achievement of this milestone was the highly collaborative relationship between the BEPDT Construction, BEPDT Engineering and Sellafield Ltd Intelligent Customer Teams that resulted in effective and timely resolution of all technical issues encountered.

Thanks to all that contributed to the completion of this Milestone.



8. WTC Robots ready to deliver



Innovative engineering design, research and rigorous testing, has for the first time enabled commercially available robots to be suitably modified and adapted to be used in a nuclear facility instead of 'through wall manipulators'. Not satisfied with one 'World First' the team behind these robots development have also delivered a first of its kind software system to enable remote repair in case of failure.

Manufactured by Kuka to the exacting standards required by the client for the BEP facility. This has only been possible due to very close collaborative working between Sellafield Ltd, its partners and the supply chain. Project Management, Quality, Engineering, Commissioning, Pre Operations and Commercial have all worked together over the last five years to make this milestone a resounding success.





Kuka Robots Schunk Tool Adaptor Plates fitted to Tool stands – Primary and Secondary



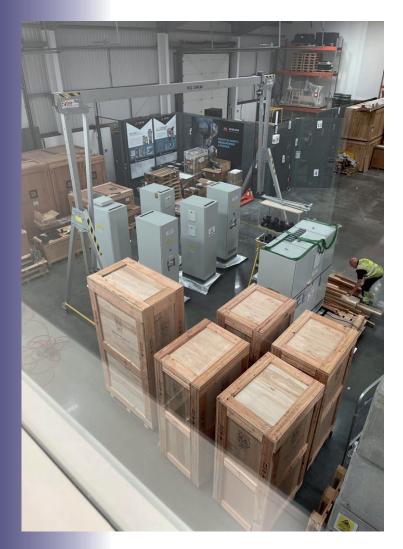








F60026 Wall box delivered



CCTV System







Sample Pots delivered to site & installed awaiting surveying & fixing

staircase installation

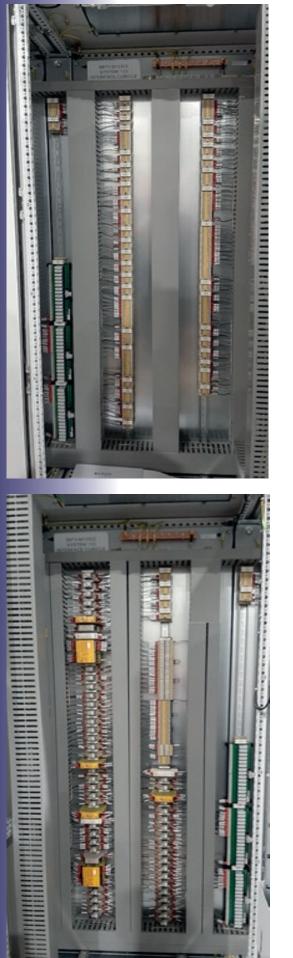


P98 Level 2 Switchboards





Workstation Pedestals for data entry into the WTIS system





PLC133 panels going into CAT

From STRIVE

to Manifesto

The BEP Project is adopting Sellafield Ltd.'s Manifesto from June 2021. This replaces the **STRIVE** project values which have served us well for six years.

This diagram shows the many commonalities between the values of STRIVE (black lower case text) and the SL Manifesto (white upper case text).

WE VALUE EACH OTHER Respect Teamwork	WE ARE ONE TEAM Teamwork	WE MAKE A DIFFERENCE Excellence Inspire
WE ARE KIND AND RESPECTFUL Respect	WE PERFORM WITH PASSION, PRIDE AND PACE Vitality Excellence	WE ARE CLEAR ON WHAT WE ARE HERE TO DO Safe & Secure Inspire
WE CARE ABOUT OUR COMMUNITY AND ENVIRONMENT Safe & Secure Respect	WE TRUST AND HOLD TO ACCOUNT Safe & Secure Excellence	WE APPRECIATE AND CELEBRATE ACHIEVEMENTS Excellence



Wellbeing:

Bullying Awareness

JOIN US FOR A BULLYING AWARENESS WORKSHOP DELIVERED BY

AKT PRODUCTIONS

Who have been developing and delivering inspirational workshops throughout various industries for over 20 years

THIS IS NOT YOUR USUAL TRAINING. AKT Productions use actors to provide Interesting and Thought-Provoking Learning!

Legacy Ponds have been lucky enough to work with them to develop a workshop on modern day bullying, what it looks like and how can we deal with it

Recently we were lucky enough to attended one of the Bullying awareness workshops which were provided by Sellafield Ltd and found it to be very informative & beneficial. I say lucky because they were only made available to none Sellafield Ltd staff at the last minute through the Wellbeing Forum. Which is a shame as they have been 'on hold' for eithteen months with the original roll-out planed for October 2019.

The workshop was delivered by AKT, an acting company specialising in behavioural safety, who use role-play to create scenarios showing the impact of workplace bullying from all aspects and points of view. Whilst it was obviously tackling direct bullying within one to one peer, and manager/employee relationships, it also deeply explored more indirect forms of bullying such as social exclusion, clique cultures, and indirect bullying through poor management skills and pressure from the chain of command.

The workshop was very interactive, inviting the audience to ask questions of all individuals involved, regardless of their different levels of authority, to address 'hot spots' this allowed the attendees to understand where using different skills and techniques could have rendered more positive outcomes.

It allowed us all to explore both our conscious and unconscious bias and were we surprised at one point to find ourselves being perpetrators. We came away with a greater understanding of the need to recognise unconscious bias and develop the ability to put personal views aside when dealing with workplace issues.

This workshop was a great tool for developing people based management skills, it would be great to see it appear again for more to be able to take part and benefit from the insight it gives from all angles.

Cath Melvin Wellbeing Co-ordintor Caroline Waters Communications

Remember...

On the project we have... If you need to talk to someone or want information. Look out for logos on email signatures, signs on desks, wall posters or



contact: Catherine.Melvin@bepdt.com Or if you prefer an independant body:



August wellbeing theme is:

Domestic Abuse

For more see the monthly wellbeing pack or notice boards near you.



Make Yourself Heard

In danger, need the police, but can't speak?



In the next issue:

Supply chain -What is it like working with BEP? Stakeholder Management- How is it going? Social Impact - What's new? In the meantime:

Feedback and positive comment always welcome, send to:comms@bepdt.com



BEP PROJECT SAFETY DASHBOARD



				PERIOD 4 (2021)		
NOTE: denotes			ΤΔΙ	ROLL	ING TOTAL (12 month)	τοται	
	bcontractors)						
		-			1,081,965	2	,299,762
INJURIOUS	EVENTS	PROJECT TOTAL	YTD	PERIOD TOTAL	ROLLING RATES	20	RIDDOR LOST TIME ACCOUNT (LTA) LOST TIME INJURY (>3DAY)
* RIDDOR		2	0	0	0.000	1 0	LOST TIME INJURY (<3DAY)
* LTI (>3days)		1	0	0	0.000		NDA RECORDABLE
ʿ LTI (<3days)		4	0	0	0.000		FIRST AID INJUR
NDA Record	able (>First Aid), Restricted Workday) 7	1	0	0.203	5 Po Date	0 Article A
irst Aid		5	0	0	0.000	Sale	pet
NON-INJUR	RIOUS EVENTS PF	ROJECT TOTAL		YTD	PERIOD TOTAL		NON-INJURIOUS EVENTS RIDDOR DANGEROUS OCCURENC
IDDOR Dang	erous Occurrence	1		0	0	2 0	SITE INCIDENT REPORT (SII
ite Incident F	Report (SIR)	2		0	0	51 0	CONTRACTOR INVESTIGATION REPOR
ncident Event	t Report (IER)	51		7	0	52 5	CONDITION REPORT (ATLAS
Contractor Inv	vestigation	47		12	5	28	0
Condition Rep	port	28		12	0	To Date	Period 4
MONITORII	NG & REVIEW			TARGET		ACI	HIEVED
Safety Obser	vation Reports			1/1000hrs (9	7)		116
Project Mana	agement Tours		>90% (20)			60% (12)	
Client Theme	ed Audits			>170 (Risk Assess	ment)		186
lient Weekly	Inspection			>170			187
Supervisor We	eekly Inspections			>90% (64)		91	% (58)
iupervisor Ob	oservations			2/week (116	5)		32
Operator Obs	ervations			1/1000hrs (1	5)		22
(PI INVEST	IGATION ACTION CLOSE OUT				Total ATLAS Act	ions Open	ATLAS Actions Overdue
Timely close	out of actions arising from Health & S	Safety Investigations			0		0
NVESTIGAT	TION SUMMARY						
Date	Summary Description						Investigation Status
9/05/2021	MEWP Punctured Plywood – A ME plywood sheeting.	EWP being manoeuvre	ed into the	WTC over a small (wo	oden) ramp when the front le	ft wheel went through the	Investigation Completed (to be taken to Peer Review 28/07/2
4/06/2021					Investigation Ongoing		
	During the transferring activities, an Push Around Vertical MEWP – PA						(report prepared and under revie
1/07/2021	access pipework. Concerns raised arrangements.						Investigation Ongoing (report prepared and under revie
5/07/2021	60T Auxiliary Hoist – On receipt of	the 60T auxiliary hois	t at the BE	P site, it was observed	the load had moved on its ti	mber supports.	Investigation Ongoing
08/07/2021	MEWP Fire Escape – MEWP parked on top of 415v cable behind compressor house obstructing fire escape.			Investigation Ongoing (report prepared and under revie			
9/07/2021	Gin Wheels – 2no gin wheels in use						Investigation Ongoing
19/07/2021	Valla GF100 (Pick and Carry Cran defects during pre-use inspection ar				dentified (16/07/21). 3 rd Part	y Training provider noted	Investigation Ongoing
IEALTH & \	WELLBEING TRENDS		M	HFA Interactions		Common Trend /Cau Other +	10
						Induitrial Disease + Work Related Stress Work/Life Salance	• · · · · · · · · · · · · · · · · · · ·
Work/Life Bal	ance			3	Ph	Relationship/Marital issue aring for family member/frient(/terminally ill yikai Causes (Docupational/Physical Health)	
	Marital Issues			2		Significant Trauma as an adult, such as PTSD + Drug and Alcohol Abuse + Long Term Physical Health Condition	
Relationship/I	Walitalissues			-		Dobt/Financial Severe or Long Term Stress +	



Contact