

desider

June 2014 Issue 73



Ministry
of Defence

the magazine for defence equipment and support



A glimpse into the future

Land equipment and Army 2020 at the heart of DVD2014

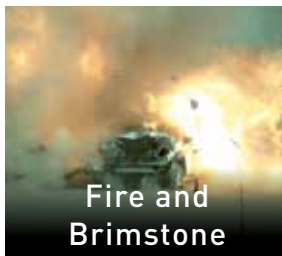


DE&S launches staff suggestions revolution

DVD2014: special preview supplement - [See inside](#)



Welcome
Artful



Fire and
Brimstone




Safety in
the skies



Success earns
its rewards



Carrier
progress



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KNOWING
THAT TODAY'S
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MAY BE
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FEATURES

42 Discipline and responsibility

Personal responsibility and discipline were top of the behaviours demonstrated by winners in the latest round of Chief of Defence Materiel Commendations. Staff, both military and civilian, gathered in Main Building on 9th May to be honoured with a Commendation from Bernard Gray, Chief of Defence Materiel

Full list of Commendations: pages 44-45

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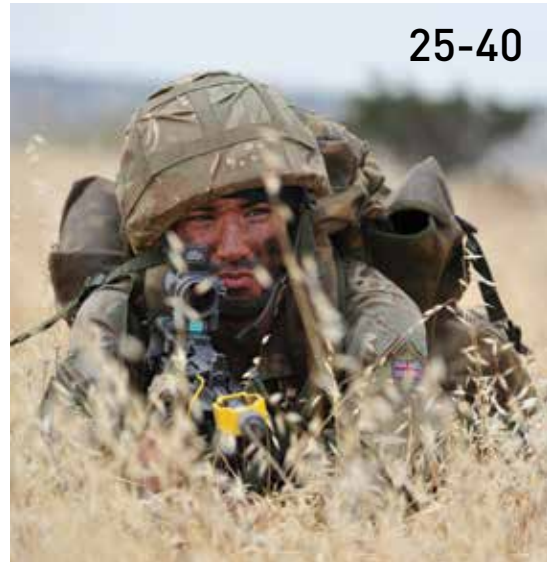
A DE&S team has been working on helicopters which can cut through wire and can talk to each other to avoid mid-air collisions in a bid to increase safety in the air

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Lightning II has met Typhoon for the first time as the UK and US take the first steps towards fielding the future of combat air power for the two nations

25-40 DVD2014

DE&S and the Army team up at Millbrook to showcase future equipment which may form the backbone of Army 2020



25-40

cover image

DVD2014 takes place this month, showcasing future equipment options for the British Army. Pictured: Reservists from 6th Battalion The Rifles have been exercising with paired Regular unit 1 Rifles in testing conditions in the heat of a Cypriot summer

Picture: Cpl Si Longworth

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CDM Commendation winner 2014

desider magazine's performance in the commercial market earned it an award from Bernard Gray, Chief of Defence Materiel, in his recognition of top-performing staff at DE&S over the previous 12 months. Advertising revenue from the magazine and its family of supplements and wallcharts reached more than £500,000 in 2013-14.

insiderguide

Bernard Gray

Chief of Defence Materiel

‘I want us to be more confident when it comes to challenging established ways of working’



The annual CDM Commendation Ceremony is, as I've said on many occasions, my favourite day of the year. I came away from this year's event with renewed pride in the fantastic work that DE&S does and confidence that we will overcome the challenges we face and become the world class organisation we aspire to be.

The Commendations Ceremony provides a shop window of the very best of the work we do and illustrates its colossal range and diversity, which I believe is probably unmatched by any other organisation in the UK.

As I said to everyone at the event, our work is exceptional and extraordinary. But behind the teams and individuals I saw and spoke to at the Ceremony, a huge amount of other activity is being done to a very high standard, demonstrating the commitment shown throughout our workforce at every level to meeting the needs of the Armed Forces.

Evidence of this comes from our own performance data which I am confident will show that our performance last year was probably the best that our organisation has experienced since DE&S was formed.

A major part of this is due to your behaviour, your ability and your determination to take on problems and have the courage to resolve them. Courage might seem quite a strong word to use in this context, but it is the correct one. Rather than continue with

some existing practices, you have challenged them and this can be uncomfortable. But you have shown this is the way to get the results both we and our military customers need.

Now with the new freedoms that we have been granted to help us further improve our performance I want us to be more confident when it comes to challenging, where necessary, established ways of working.

You may have seen that the two documents that provide the key underpinning for our new role as a Bespoke Trading Entity have been published and are available for you to read on the Defence Intranet.

The Framework Document sets out how DE&S will operate and details the governance, policy and finance frameworks within which we will operate. It explains the role of the Owner's Council, outlines the Board structure that we will use and lists our ground-breaking new freedoms.

The DE&S Corporate Plan 2014-2017 sets out our priorities, aspirations and key performance targets.

Finally, as we set out on our new path I want to put even more emphasis on ensuring we continue to develop and grow our communications within DE&S. We are working hard to ensure that everybody has the opportunity to join the discussion, make suggestions on change for the better and play a part in improving the ways that DE&S goes about its business.

New documents

TWO DOCUMENTS, published last month, set out in detail for the first time the way that DE&S is to be governed and how it will operate as an arm's length body within the MOD.

The DE&S Framework Document sets out how DE&S will operate as a bespoke trading entity and gives details of governance, policy and finance frameworks within which we will operate. It explains the role of the Owner's Council and outlines the Board structure that we will use.

The DE&S Corporate Plan 2014-2017 sets out the organisation's priorities, aspirations and key performance targets.

In his foreword to the Framework Document, Minister for Defence Equipment, Support and Technology Philip Dunne, pictured, said: "DE&S' primary purpose is to equip and support the UK's Armed Forces for operations now and in the future. It is responsible for delivering some of the most complex



projects in the world for its military customers, procuring new military equipment, commodities and services and supporting in-service equipment through life.

"On 1st April 2014, it was launched as a bespoke trading entity, a unique business model in government that has been tailored to allow it to deliver, cost effectively, the department's ten year £164 billion equipment and support plans. This marks a key stage in its journey to transforming into a world-class organisation that is more empowered and better equipped to meet the challenges of delivering complex projects.

"This framework document sets out in one place what is required from DE&S as a bespoke trading entity."

The document includes a series of strategic objectives encompassing delivery of the equipment and support programme, transition between April 2014 and April 2015 and transformation to "match-fit" status between 2015 and 2017.

It details the governance of DE&S and the roles of Ministers, the Board and Bernard Gray, Chief of Defence Materiel, and lays out the overarching policy framework within which the new DE&S is operating and delegations and new freedoms granted to DE&S.

The document states: "The principle being applied in this Framework Document is that DE&S will have the fullest possible freedom to manage its workforce and to organise itself consistent with delivery of

Plans set out the future of DE&S

its objectives.”

In his introduction to the Corporate Plan, CDM wrote: “DE&S came into being in 2007, bringing defence procurement, equipment, support and logistics together into a single enterprise. That was the start of a journey but only a start; we are now taking it into its next phase, to address deep seated problems which have hampered delivery for many decades.”

He said DE&S had achieved a substantial productivity increase and tangible improvements in delivery of the programme.

“We have a clear obligation and ambition to continue this improvement; to become even better at delivering what our Armed Forces need, when they need it, and at a cost that represents value for money for the taxpayer.

“To achieve that ambition we must have the freedom to operate in a way that matches our business need. The change in status of DE&S provides that freedom. DE&S is a specialist organisation delivering a complex mix of equipment and support which encompasses some of the most demanding technical challenges

in the world of acquisition. We can now develop and incentivise our workforce to meet our needs.”

The Corporate Plan sets out DE&S’ governance through the Owners’ Council, chaired by Min(DEST), the DE&S Board and the DE&S Executive Team, led by CDM.

It lists DE&S’ achievements over the past year, its priorities, high level objectives and the roadmap to achievement of a fully match-fit organisation in 2017.

The Framework Document will be reviewed annually and the Corporate Plan



‘We can now develop and incentivise our workforce to meet our needs’ – Bernard Gray, Chief of Defence Materiel

Private sector skills for DE&S – the hunt is on

EIGHT COMPANIES have been issued with Invitations to Negotiate to provide vital private sector expertise to help DE&S project teams as they deliver the equipment and support needed by the Armed Forces.

Four contracts are planned – one for each of the four DE&S domains of Fleet, Land, Air and Joint Enablers. Contracts are expected to be placed later this year and will run for three-and-a-half years.

Barry Burton, Director Materiel Strategy, said: “The issue of these Invitations to Negotiate (ITN) is a key step forward for DE&S, following our launch on 1st April as a bespoke trading entity.

“The support they will provide will be an important injection of private sector knowledge and expertise as we embark on our journey towards becoming a world class organisation and focus on exceeding our customers’ expectations.

“DE&S, as a bespoke trading entity, requires the MSPs to work alongside our project teams, providing strategic support and assistance in discrete, clearly defined areas,

but crucially, DE&S retains responsibility for making the decisions that deliver our programme; the responsibility remains with us.

“We have carried out a considerable amount of soft market testing ahead of the ITN issue, liaising with suppliers to gain a broad overview of how the market views MOD requirements and plans. Information from the testing has been fed back into the requirements work.”

Mr Burton said the Materiel Strategy team had also issued a Contract Notice and Pre-Qualification Questionnaire for Work Package 3 for a Human Resources MSP.

This MSP would be required to design and implement a new HR strategy and establish an HR function to improve performance across DE&S – a key aspect of the transformation needed in DE&S. This contract is expected to be let later in the year.

In addition to Project Delivery and Human Resources MSPs are also focused on the areas of Finance/Management Information/ Information Technology.

Work Package 1 focuses on the Project Delivery requirement and covers all products and services DE&S delivers to the MOD, including new military equipment, commodities and services, supporting in-service equipment through-life, or managing global logistic operations.

The procurement has been divided into four Lots covering the four DE&S domains to take account of the complex environment in which DE&S operates.

The competition rules allow a maximum of two of the four Lots to be won by any one company.

Each contract will have a duration of three and a half years, with the option of two one-year extensions.

Invitations to Negotiate have now been issued to Atkins, Bechtel, CH2M Hill, Deloitte, Jacobs, KBR, McKinsey and URS.

The Materiel Strategy team expects to be in a position to issue a Contract Notice for Work Package 2 (Finance/Management Information/Information Technology) later this year.



Bernard Gray, right, joins Materiel Strategy's Stephen Palmer by neighbourhood two's suggestion box

Awards were made for some of the best suggestions. Among competition winners were:

Neighbourhood 1: Lisa Barrow, Larry Mount.

Neighbourhood 2: J Stewart, Roger Price, Angie Egginton, Vicky Eccott, Diana Maslin.

Neighbourhood 3: Paul Vosper, Tim Chidley, Claire Fletcher, Robert Mallia.

Neighbourhood 4: Gill Coleman, Liz Royle, Yve Lambert, Alison Burgess

So what have people asked for?

The winning ideas under each of the five questions had the following themes;

- Pay, performance and conditions – what would you change?

Winners addressed issues such as paying people for the qualifications and experience they have rather than paying everyone the same, creating a system for matching resources to urgent and important tasks; there was also a suggestion of setting objectives at the start of the year which went beyond normal objectives and which would attract a bonus if delivered.

- Improving the way DE&S delivers to the Armed Forces – how can it be done better?

Winning suggestions in this category included providing suggestion boxes around sites so staff could submit their ideas anonymously, streamlining processes for

approvals and procurement and visiting equipment that staff support to see how their role fits in with the bigger picture.

- Issues in the workplace – what are they and how do you deal with them?

Winning suggestions in this category were varied from improving the software in line with other businesses; improving the remote working facilities with more laptops available to staff; improving the Enterprise search to be easier to search and to include more details for example job description; and to look at how to manage the locker system better.

- Red Tape Challenge – what would you change?

The winners here suggested removing business cases for normal running costs that are already delegated to budget holders, improve booking of travel to allow staff

Staff sign up

SUGGESTIONS MADE by DE&S staff during Launch Day have already resulted in changes and improvements in the workplace and suggestion boxes have now been permanently installed to encourage even more input from staff.

DE&S senior leaders were delighted with the response from staff to the 'post-it' note exercise conducted around the launch in April and are keen to see it continue.

Staff suggestion boxes have been placed in Abbey Wood neighbourhoods and other DE&S sites have been encouraged to put up suggestion boxes. Suggestions can also be made through the Materiel Strategy multi-user account.

Large posters listing staff suggestions have also been put up by the Materiel Strategy team in Abbey Wood neighbourhoods.

They are renewed weekly to keep staff updated on progress as their suggestions are acted upon, improvements are delivered and new suggestions are added.

Ideas already put into action include the establishment of a new Human Resources structure which embodies business and people-facing elements; improving disabled parking spaces; developing a new interim performance management system and creating posters for use across DE&S of the new DE&S Executive Team.

The new communication measures come after response to a competition for staff ideas – more than 1,300 suggestions were received – was described as 'fantastic' by DE&S' Materiel Strategy team.

Five questions were displayed in each neighbourhood atrium at Abbey Wood

authority, and deal with those that abuse the system; develop a single Management Information System across DE&S and the Commands to have one version of the truth and use lean techniques to test process improvement with the suggestion to make lean a core skill.

- Things that I enjoy about working in DE&S – what should be kept the same or built upon?

Great people working together to support the Armed Forces; it would be good for seniors and managers to say thank you – it means a lot to people; DE&S has good facilities and a good work ethic with the suggestion of team building activities to make a better workforce.

In Neighbourhood 2, Chief of Materiel Joint Enablers and Director General Resources also posed an additional question: Getting to and from work – how do you find it and what would you change? The competition carried on for two weeks after launch to give staff maximum time to add their suggestions.

to a DE&S 'post it' revolution

during the 1st April Launch Day activities and at some other DE&S sites. Staff were invited to put their suggestions onto 'post it' notes against each question.

Each action has been collated into a theme with a Chief of Materiel 'owner' who will personally oversee implementation of the actions. They are:

Leadership – Chief of Materiel (Joint Enablers) Pete Worrall

Working environment – Chief of Materiel (Land) Lt Gen Chris Deverell

Processes – Chief of Materiel (Air) Air Marshal Simon Bollom

Human Resources – Chief of Materiel (Fleet) Vice Admiral Simon Lister

DE&S senior leaders are keen to deliver

Improvements on way after Launch Day ideas

actions as soon as possible and have established a 'Swat' team led by Materiel Strategy Deputy Head Stephen Palmer to co-ordinate delivery and communicate to staff about this work.

"The response to the competition was fantastic," said Mr Palmer.

"Each of the Chiefs of Materiel has picked winners for the neighbourhood for which they are sponsor.

"We are working through the list and have prioritised actions that we can deliver within 30, 60, 90 days, and beyond for those that require significant policy change or lead times for delivery."

The Board has also agreed that up to £1 million will be available to implement these actions as appropriate.

"Many of these suggestions are Abbey Wood-focused but we want to see suggestions from across all DE&S sites," added Mr Palmer.

"Although the competition has closed, this does not mark the end of the process.

"All responses have been analysed and these have been captured as almost 200 actions that could be implemented to improve how we work in DE&S."

DE&S success stories earn their 'gold standard' reward

Staff praised for discipline and responsibility

NEARLY 200 staff from teams across DE&S were feted at a high profile occasion in London last month as Bernard Gray, Chief of Defence Materiel, hosted his annual commendation ceremony.

The awards recognise excellent performance in a range of activities from acquisition and support of military equipment to those whose work enables the organisation to carry out its function of equipping and supporting UK Forces for operations.

Teams and individuals heard from CDM that the annual awards represented his favourite day of the calendar when he could reward those whose hard work, dedication, innovation and imagination enabled the organisation to deliver on its tasks.

"I am hugely proud to lead this organisation," Mr Gray said.

"I know how much hard work goes into achieving results. And you have all achieved a huge amount over the last year.

"I am proud of you and I hope you and your families are proud of what you have done. Please enjoy the day. It's your day; thank you for all your hard work getting us to this point. I applaud you all."



Award hosts: Bernard Gray, Chief of Defence Materiel, centre, is joined by Master of Ceremonies, Director HR David Ball, left, and some of the event organisers Lorna Coleman, Mandy Harris and Linette Haines

In a wide-ranging speech to winners CDM spoke of the discipline teams had shown in their achievements and the personal responsibility many had taken to make sure their projects were successful.

Forty-one teams and individuals were presented with awards which was followed by a lunch in Main Building.

□ Award details: pages 42-45

NEWSREEL

Withdrawal at pace

AROUND 70 per cent of troops based in Germany will have returned home by the end of next year, exceeding the Strategic Defence and Security Review target of bringing back half of those personnel by then, Dr Andrew Murrison, Minister for International Security Strategy, has reported. Having closed Celle in 2012, the closures of the Rheindahlen Military Complex and Münster Station were completed last year, and Hameln will close by December this year. Elmpt and Herford Stations will close by December next year, followed by the closure of Hohne and Fallingbostal Stations before March 2016. Early moves and unit disbandments have already reduced military numbers in Germany by 33 per cent with the first tranche of major unit moves and re-rolling from Germany to occur next year. Remaining troops will relocate by 2019 to base the three high readiness Reaction Force Brigades on Salisbury Plain.

Order out of chaos

BMT Defence Services has undertaken a major contract with the Defence Science and Technology Laboratory to develop a central database to capture and share information used by Military Stabilisation Support Group (MSSG) staff in the field. MSSG provides military support to the civilian efforts to help stabilise countries either emerging from conflict, or are at risk of sliding into chaos.

UORs hit the 100 per cent mark

DE&S makes steady progress, says DG Resources

DE&S DELIVERED every one of its urgently needed equipment procurements for the front line on time in the last financial year.

Twenty-five urgent operational requirements included the £30 million Scan Eagle from Boeing. The remotely piloted system for the Royal Navy, is playing a crucial role in operations and humanitarian missions in the Gulf and elsewhere.

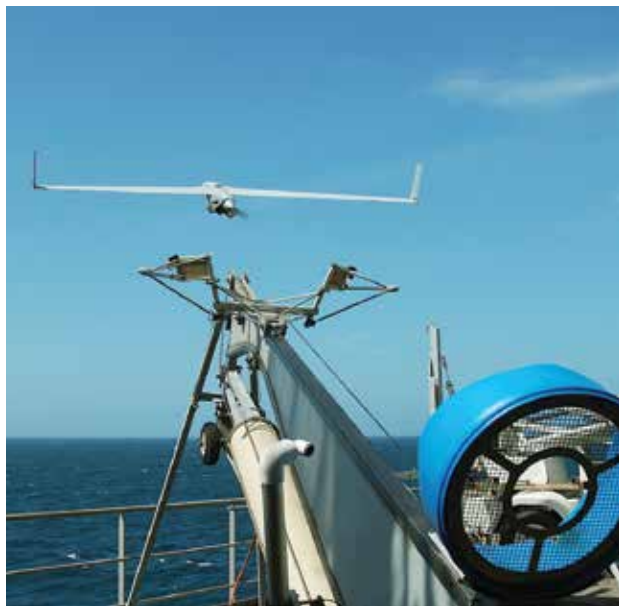
All equipment delivery dates were met, with some kit delivered early.

The news was welcomed by Michael Bradley, DG Resources at DE&S. "This is another example of the steady progress DE&S has been making over the last few years," he said.

"We are committed to improving delivery to our customers and our teams should be commended for meeting such important commitments on this vital kit."

The urgent operational requirement (UOR) process is used for rapid purchase of, or modification to, equipment to address urgent and unforeseen capability gaps in support of

Scan Eagle: one the latest UORs from DE&S



current or imminent operations.

Where a requirement meets these criteria and is specific to a particular operational theatre, it will be funded from the Government Special Reserve rather than the defence budget.

More than £8.1 billion of expenditure has been approved through the UOR process since 2001, of which around £6 billion has been for emerging requirements for Afghanistan.

Last year's funding amounted to £248 million – only £89 million was eventually spent, reflecting the drawdown from Afghanistan – and included money for continuing existing

unmanned air surveillance to protect troops on the ground.

In addition there has been a wide range of Joint and Land UORs delivered including additional Foxhound protected patrol vehicles, enhanced Improvised Explosive Device detection and protection systems, vehicle safety enhancements, additional BAe 146 aircraft, and a capability to identify enemy locations.

A number of business cases have been approved to bring some urgent operational requirement equipment into the main MOD Equipment Programme.

Technology moves to the forefront

DVD2014 TAKES place at Millbrook later this month as a showcase for the technologies which will be at the forefront of Army 2020.

The event on 25th and 26th June – there is a day of closed conferences on 24th June – takes place at its usual Bedfordshire proving ground venue and is sponsored by DE&S and Army HQ.

"This large event helps our customers shape their requirements and assists DE&S and industry in driving innovation," said Major General Paul Jaques, Head of Land Equipment at DE&S.

"Since its evolution in 2003, DVD has grown to become an established event. The theme is 'Enabling Army 2020' which gives a focus to transforming support for land equipment as we return from Afghanistan and the Army moves onto its new footing.

"Looking forward, our priority will be sustaining and supporting land equipment, bringing urgent operational requirements and new platforms into core and preparing for contingent operations."

Maj-Gen Jaques added that visitors to DVD this year would see a vast selection of the core equipment used by the Army.

"They will see heavy armoured vehicles, protected mobility and light logistics vehicles as well as operational infrastructure, soldier systems and training systems," he said.

"Attending the event will be representatives from the field force who will be keen to meet the designers and industry providers of equipment that they will have while on operations in Afghanistan."

DVD2014 details: pages 25-40

INSPIRING A GENERATION.

We are committed to investing in our people and infrastructure to create a world class complex warship capability which delivers value for money and the best equipment to the Royal Navy.



Artful makes her debut



Out in the open: *Artful* pictured in Devonshire Dock at Barrow and, below, on her way from the Dock Hall

Pictures: BAE Systems

THE HARD work of DE&S and industrial partners led by BAE Systems was praised as the third *Astute* class submarine was launched into the dock at Barrow-in-Furness.

Artful began edging out of BAE Systems' giant construction hall on Friday 16th May and was carefully lowered into the water the day after.

Director Submarines, Rear Admiral Mike Wareham, said: "The *Astute* programme is making real progress and the sight of the third submarine afloat in the water is a reflection of the hard work of both the MOD and industry.

"The launch of this submarine brings it a step closer to entering into service where it will provide a key capability for the Royal Navy and an essential component of the Submarine Service into the future."

Artful, the third of seven in the *Astute* class, will now begin the next phase of its test and commissioning process ahead of sea trials next year.

Stuart Godden, *Astute* Programme Director for BAE Systems, said: "The launch of *Artful* is another significant step forward in the *Astute* programme.

"Building on past experiences we've been able to launch her in the most advanced state of construction of any submarine to be built in Barrow. This allows us to now fully concentrate on the test and commissioning activities required to get her to sea.

"Moving a submarine of this size from its build hall to the water is very challenging. It's testament to the experience and careful planning of the team involved that *Artful* is now ready for the next phase in her programme.

'Witnessing a submarine be readied for launch is truly inspiring'

"Witnessing a submarine move out of the hall and be readied for launch is truly inspiring and a source of great pride to the thousands who have played a part in getting *Artful* to this stage."

Artful will now undergo a series of complex tests to prove the safety and operability of its systems before it departs BAE Systems' site for sea trials.

The first two submarines – *HMS Astute* and *HMS Ambush* – have now been handed over to the Royal Navy, while the remaining five are in various stages of construction.



UK signs up to watch this space

THE UK has joined forces with Australia, Canada and the US to share expertise and resources dedicated to space operations.

The partners will 'co-operate on activities such as identifying and understanding what objects are in space, ensuring uninterrupted satellite operations, and avoidance of satellite collisions'.

They add that 'such activities will make a significant contribution towards a safer and more secure space environment while also enhancing mutual security'.

UK Forces have an increasing reliance on space, making this partnership particularly vital to the way the MOD does business.

The UK's participation in the

partnership on combined space operations fits with the aims of the 2010 National Security Strategy and the 2014 National Space Security Policy objectives, which emphasise that the UK benefits from a tried and successful approach to collective security using a wide set of alliances and partnerships.

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NEWSREEL

T45 discards paper charts

THE need for paper charts on the Type 45 destroyers will be a thing of the past when each ship takes on the Electronic Chart Precise Integrated Navigation System, the primary element of the Warship Electronic Chart Display and Information System (WECDIS) navigation capability. This will enhance Type 45 navigation which currently uses a mix of paper charts and an electronic system used on commercial shipping. Minister for Defence Equipment, Support and Technology Philip Dunne has said rollout of WECDIS is scheduled from early 2016, subject to the ships' operational programme, and is expected to cost £5.6 million for all six ships.

Signing up for the Games

MORE than 2,000 military personnel will help assist with venue security at the Glasgow Commonwealth Games as well as undertaking a number of ceremonial roles – including a fly-past by the Red Arrows at the opening and the provision of 72 flag bearers for medal ceremonies. The Forces will provide specialist capabilities such as Explosive Ordnance Disposal support and air security measures similar to those seen during the London 2012 Olympics. Overall, around 900 personnel are being provided by the Army with just under 300 each from the Royal Navy and RAF. A further 900 personnel will be in reserve should they be required.

Homeward: a 10th May road move involving 77 military vehicles transported equipment from Sterga 2 to Camp Bastion. Soldiers of 4 Scots, who had occupied the base for six months, helped co-ordinate the move and will shortly return home to the UK and Germany



More kit starts the long journey home

MORE THAN 100 ISO containers worth of equipment was removed as Defence Secretary Philip Hammond visited Afghanistan to mark the latest milestone in the drawdown of UK forces.

Mr Hammond witnessed the closure of Observation Post Sterga, the last remaining forward base to be used by UK troops.

The closure of Sterga means that the only UK troops remaining in Helmand are at Camp Bastion and locations in Kandahar and Kabul.

During the visit, which was conducted as closure work continued, Mr Hammond spoke to soldiers from the 4th Battalion, Royal Regiment of Scotland who had been living and working there.

He said: "The closure of our last base outside Camp Bastion is another important step towards ending combat operations in Afghanistan.

"It is also an opportunity to

reflect on the mission and the hard work and sacrifice of British Forces. Their efforts have helped build a credible Afghan National Security Force and supported the emergence of a democratic Afghan state."

Sterga opened in August last year to enable UK personnel to observe a large and strategically important area of central Helmand. Troops based there provided vital assistance in covering UK and US base closures and gave Afghan and coalition personnel a fuller understanding of insurgent activity.

At its peak the base was home to 180 people although by

its closure this had reduced to around 90.

Providing security for the redeployment was the UK-led Manoeuvre Battle Group. Commanding Officer Lt Col James Roddis said: "Providing a secure environment for the redeployment of a base is vital to ensure the safety and protection of our personnel and equipment.

"The soldiers of the cross-coalition multi cap-badged Manoeuvre Battle Group, led by 4 Scots, have once again shown their ability and competence in making sure the personnel and equipment from Sterga could return safely back to Camp Bastion."

□ Equipment that was redeployed from Sterga included: Husky Protected Support Vehicle, Persistent Threat Detection System (balloon), MAMBA Weapon Locating Radar, Lightweight Counter Mortar Radar, Light Electronic Warfare Team, Desert Hawk III (small unmanned aerial vehicle), Livingston Base ISTAR (intelligence, surveillance, target acquisition and reconnaissance) system, 105mm Light Gun, 82mm Mortars (high explosive, smoke and illuminating rounds, accurate to a maximum range of 5.5km).

Latest Phalanx weapon systems delivered on time

THE LATEST set of Phalanx weapon systems to be upgraded has been delivered on time.

Babcock, in consortium with Raytheon and DE&S, has delivered four Phalanx 1B kit modifications and two conversions of the land-based system to the upgraded marinised configuration.

Babcock is in-service support provider for Phalanx, a rapid-fire, computer-controlled radar and 20mm Gatling gun system.

The latest four 1B kits and two conversions have been delivered under an amendment to the company's existing long-term availability contract,

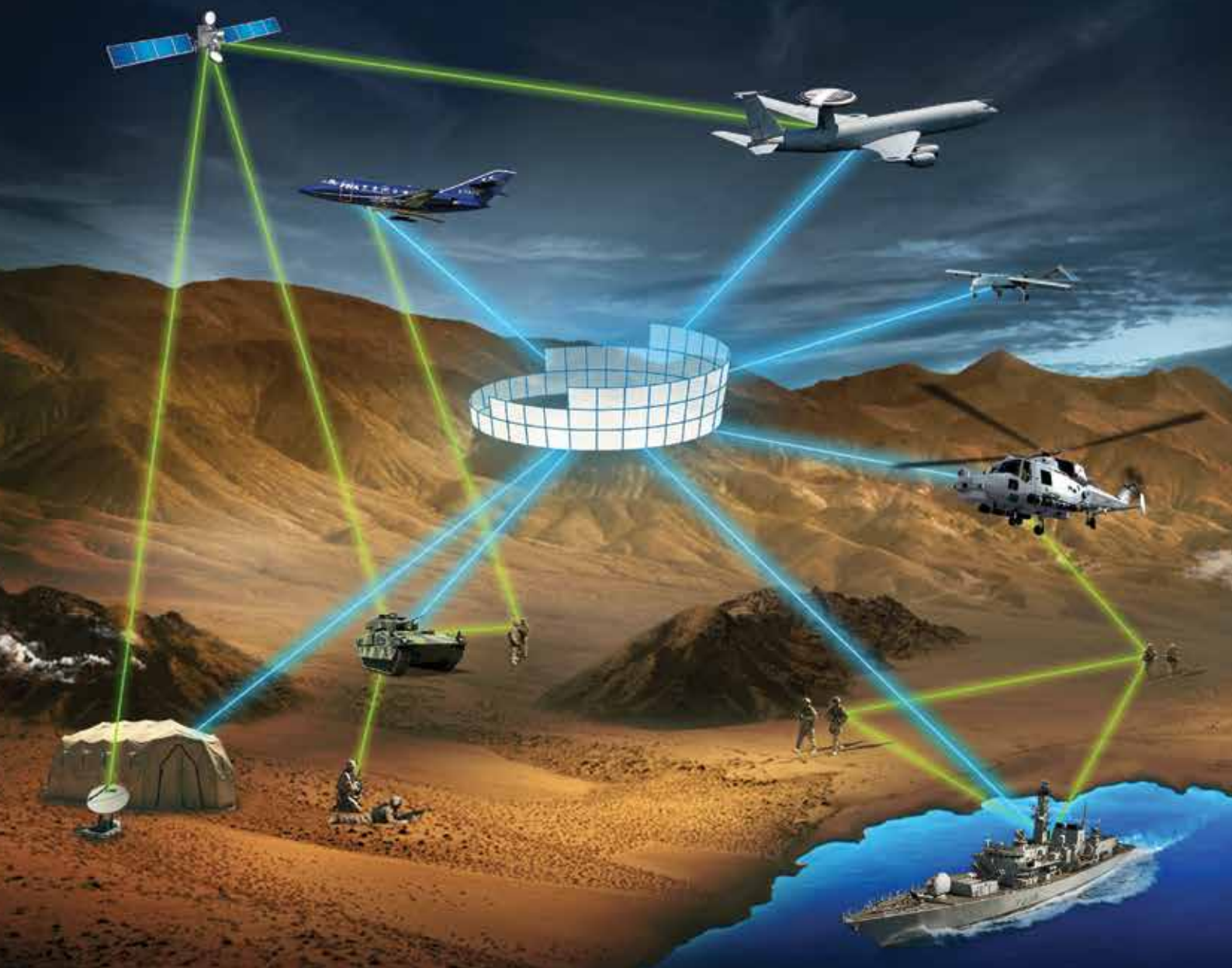
awarded in 2006, under which Babcock manages all upkeep support, including a 24/7 helpdesk for the Royal Navy, and provides logistics support for spares and repairable units.

Babcock is also under contract to upgrade 16 Phalanx systems to the 1B configuration in a programme with Raytheon and DE&S' International Guns, Missiles and Rockets team.

Babcock has worked with original equipment manufacturer Raytheon, and has undertaken conversion of the two land-based Phalanx using their own weapons support engineers.

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THE MOST complex of a series of modifications carried out by Northrop Grumman to the RAF's Sentry fleet has been fielded.

The company has designed a Mode S upgrade to the Identification Friend or Foe (IFF) interrogator for the Sentry Airborne Warning and Control System fleet based at RAF Waddington.

The IFF interrogator is a sophisticated airborne defence system that provides a long-range early warning and detection capability, allowing discrimination between friendly and hostile aircraft. The Mode S system enables the aircraft to be used in controlled airspace.

The work was performed at Waddington under the existing Sentry Whole Life Support Programme.

"Northrop Grumman partnered with the Sentry team to develop and integrate this complex, critical capability," said Gp Capt Adam Northcote-Wright, Air ISTAR delivery manager at DE&S.

"This combined effort delivered a cost effective Mode S solution that has achieved full operational capability across the UK Sentry fleet."

John Parker of Northrop Grumman Technical Services, added: "This innovative system upgrade has eliminated the need for complete mission computer replacement, thereby providing the MOD with a comprehensive, affordable solution to the Civil Aviation Authority's upgrade requirement.

"The new, open architecture system also provides a foundation for future incremental hardware and software upgrades to support sustainment of the Sentry."

Northrop Grumman will deliver the Sentry support programme until 2025.

Sentry takes on enhanced duties

Sentry duty: the RAF's fleet is based at RAF Waddington



WARSHIPS

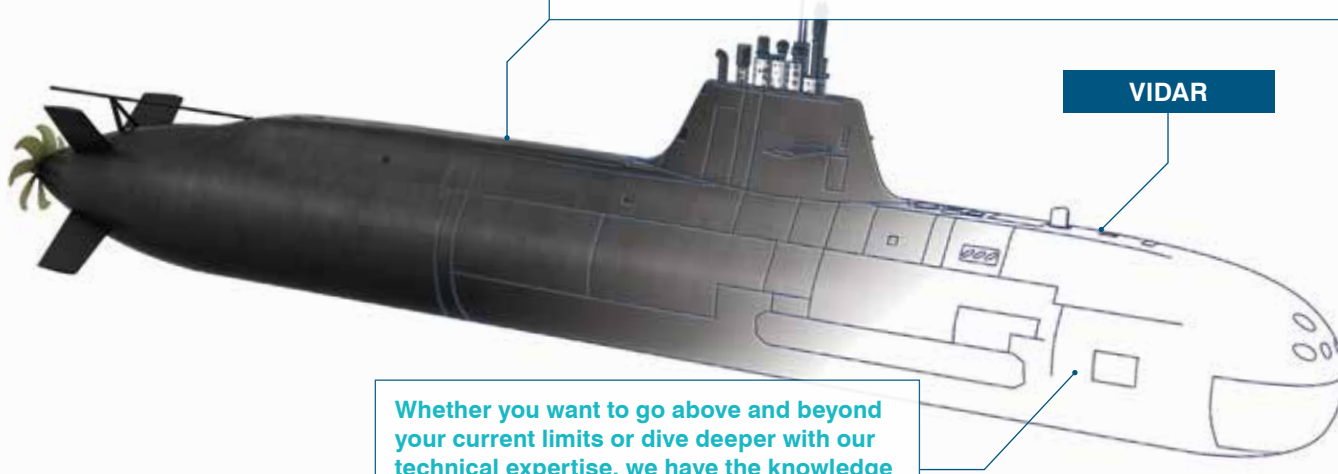
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Computer generated image of MBDA's CAMM (Common Anti-Air Modular Missile), part of the FLAADS programme

Picture: MBDA



Above: a FLAADS launcher fires a Common Anti-Air Modular Missile during trials. Picture: MBDA



Rapier ground based air defence launcher with missiles

Next Rapier takes a big step forward

A POSSIBLE replacement for the Rapier ground based air defence system has moved a step closer with a £36 million investment.

MBDA UK has been awarded a contract to explore the capability that a land version of the Future Local Area Air Defence System (FLAADS) could offer UK Armed Forces.

The company is already developing a similar system, known as Sea Ceptor that will be used by the Royal Navy. This assessment phase contract for the land version will sustain more than 90 highly skilled jobs at MBDA's sites in Stevenage and Bristol.

FLAADS is a ground based missile system that can travel at 1,000 metres per second and is able to simultaneously defend against a number of threats including jets or cruise missiles travelling at supersonic speeds.

Over the next year, MBDA UK will use computer technology to assess exactly how the missile

system would work and could be used

by the Army. Following the assessment phase, a decision on whether to buy FLAADS as a replacement for Rapier is expected to be made next year.

Minister for Defence Equipment and Support Philip Dunne said: "The Future Local Area Air Defence System would give the Army a new, British-built defence capability to protect UK interests against current and future threats from the air.

"These missiles are designed to form a suite of battle-winning capabilities we are investing in. This potential land system is the next stage development of a maritime system which highlights the UK is a world leader in evolution of missile design and manufacturing."

The assessment phase was

described as an 'important milestone' by MBDA's UK managing director Steve Wadey, showing how the MOD-MBDA Portfolio Management Agreement worked.

"It's the opportunity to provide an affordable, yet highly capable air defence system for the Army and Royal Navy," he said.

"By extending the FLAADS programme to land applications, the MOD is showing confidence in MBDA's ability to maximise cost benefits for its customers through modularity and re-use of existing technologies."

The current version of Rapier, the Army's air defence system, was used to defend London during the 2012 Olympic Games and has been in service since 1996

NEWSREEL

Ship hosts Royal visitor

THE QUEEN has spent a day on board *HMS Lancaster* in Portsmouth, catching up on the ship's activities around the globe. Her Majesty – as the Duke of Lancaster – launched the Type 23 frigate in 1990 and has taken a keen interest in her work ever since. She chatted to crew members about recent deployments and, leaving the ship, she joined the ship's company for a photograph on the upper deck. *HMS Lancaster's* Commanding Officer, Commander Peter Laughton, said: "It has been a true honour to receive a visit from our Lady Sponsor, The Duke of Lancaster. Since launching *HMS Lancaster* in 1990 I know Her Majesty has taken a keen interest in what we are doing, and today gave me the perfect opportunity to update her on the ship's recent activities."

Four more sign up

NITWORKS, the partnership between the MOD and industry, has added four more associate member companies, taking to double figures the companies signed up this year. Deep-Secure is a small Worcestershire-based company delivering cyber security products while Mason is an IT and communications advisory company. Pera Defence provides specialist skills to innovative design, technology and processes, and Bristol company Riskaware develops specialist software for technical and science application

New support contract keeps driving down costs

ATTAC B continues successful Tornado partnership



A Tornado prepares for take-off during operations in Afghanistan

DE&S' CHIEF of Materiel (Air) has welcomed the latest Tornado support contract as it will introduce further improvements to the aircraft at reduced cost.

More than 600 engineering jobs will be secured by the £125 million five-year contract with BAE Systems to maintain, repair and upgrade the GR4 version of the fast jet.

Up to £90 million will be saved on the original Availability Transformation: Tornado Aircraft Contract (ATTAC) which started in 2006 and was due to expire in 2016.

Work will take place at RAF Marham in Norfolk, RAF Lossiemouth in Scotland, RAF Leeming in Yorkshire and at BAE Systems sites in Warton and Samlesbury. The savings are on top of £1.3 billion already delivered by the MOD

and BAE Systems since 2006.

Air Marshal Simon Bollom said: "The Tornado GR4 is a once-in-a-generation aircraft and we broke new ground with the ATTAC Support contract. This ATTAC B contract builds on a firm foundation and delivers yet further improvements at reduced cost which will keep Tornado operating at the highest level for the next five years.

"The Tornado now represents a world class capability with an array of weapons and sensors and will continue to support operations and be an integral part of the RAF's fleet until it is retired near the end of the decade.

"Through this contract we will continue to partner with BAE Systems to deliver agile and innovative support to ensure the Tornado force

is capable and ready for action."

The Tornado multi-role GR4 can fly at supersonic speeds at up to 50,000 feet carrying some of the most advanced reconnaissance and surveillance equipment in the world. This is alongside an array of short range air-to-air missiles and laser-guided bombs.

The aircraft is deployed in Afghanistan providing vital air support to UK and wider ISAF operations, and has previously supported operations in Iraq, Kosovo and Libya. The contract will run until the aircraft are retired at the end of the decade and replaced by Typhoon and Lightning II jets.



BAES delight at new contract

RAF MARHAM, above, will see some of the work covered by the latest Tornado support contract.

Nigel Whitehead, Group Managing Director – Programmes and Support at BAE Systems, said he was delighted with terms of the new contract.

"The original ATTAC contract has proved highly successful. It's an excellent example of partnering as it provides an agile and responsive solution to our customer's needs," he said.

"This extension will mean we continue to play an essential role in helping the RAF gain operational advantage no matter what the challenge.

"Everyone involved with ATTAC, from our team to the RAF and the MOD has worked tirelessly to ensure the RAF has Tornados available to support operational requirements while ensuring the service delivers value for money."

Mustard plants to detect chemical warfare agents

THE HUMBLE white mustard plant can help the global fight against deadly nerve agents in conflict – thanks to a research project from The University of Central Lancashire (UCLan) and the Defence Science and Technology Laboratory (Dstl).

UCLan and Dstl have shown that plants grown on nerve agent contaminated soil can confirm the presence of the deadly VX agent when conventional

soil analysis may not. Research reveals that white mustard plants grown in contaminated soil absorb the intact agent and degrade it to chemicals that indicate its prior presence in the environment up to 45 days after initial contact.

The plant is better at detecting previously undetectable levels of VX agent in soil, but can also help remove it from the ground.



Bohemia Interactive Simulations were proud to exhibit and participate in the **ITEC Conference in Cologne, Germany 20 - 22 May 2014**. In just our latest development, our customers engaged in our demonstration of the flexibility and interoperability of VBS3 for tactical training. In a live, integrated FAC demo with the latest in UAV simulation and AI, VBS3 offers improved optimization for faster performance, support for large terrains, intuitive user interfaces, improved graphics and fidelity and much more.

Recently, we received great news from the U.S. Army that there is strong demand for VBS3 -- thousands have

requested licenses for the software in just a few weeks of the Army's release of VBS3 to its units.

We owe much of this success to a team of developers eager to immerse themselves in understanding our customers' training needs. The BISim team is constantly thinking about ways to improve and enhance the user training experience in VBS. We are proud of our long associations with our key Enterprise customers in the UK and our continuing development work directly with the Army and Navy with our UK development team in Farnborough.



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NEWSREEL

Airbus earns a Queen's award

AIRBUS in the UK has been named as a winner of the Queen's Award for International Trade for outstanding overseas sales growth over the last three years. Airbus facilities in Filton, Bristol and Broughton, north Wales design and manufacture aircraft wings for Airbus aircraft, including the RAF's new Voyager transporter, and A400M aircraft. The wings are then transported to final assembly lines in France and Germany. To date, more than 13,800 Airbus aircraft have been ordered by 352 customers globally – from the short-medium range A320 Family to the iconic A380 'superjumbo'.

Warning

ANALYSIS is underway into a potential collision warning system for Typhoon, Minister for Defence Equipment, Support and Technology Philip Dunne has said in Parliament. But a system has not yet been fitted on a Typhoon for testing and a decision on whether to install such a system has not been made, he added.

Carrier lift

THE two aircraft lifts on each *Queen Elizabeth* class carrier each measure around 28 metres long, 15 metres wide, and 2.5 metres deep, along with a number of other internal cargo lifts installed on each ship, Defence Equipment, Support and Technology Minister Philip Dunne has revealed in answer to a Parliamentary question.
 □ Carrier latest: page 22

Aberporth boasts key investment

New work to take testing range 'from strength to strength'

WORK HAS started on a multi-million pound investment to build a brand new command, control and office building at Aberporth.

The MOD investment, which will be key to the effective operation of the Aberporth Range, is worth £10 million, and comes as the facility celebrates its 75th anniversary of being in operation.

QinetiQ operates and manages the range at Aberporth on behalf of DE&S under the terms of a Long Term Partnering Agreement.

Aberporth offers a vital test, evaluation and training capability to UK and allied forces with its large, secure safety area used for testing air-launched weapons and Unmanned Aerial Systems.

The company has been working with the MOD and local planners over the past two years to replace the current 50-year-old building with a design which will meet the future needs of the

range in the most cost-effective manner.

The new building will centralise command and control functions, including air traffic control and meteorological offices on the range, and include additional office accommodation, all of which will be built to the highest standards of energy efficiency.

Planning permission was granted last year and work is expected to finish next March. Existing buildings are expected to be decommissioned and demolished once the new building is in service.

Steve Attrill of DE&S' Trials, Evaluation Services and Targets team, said: "For three quarters of a century the Aberporth Range has provided a vital test and evaluation, and training capability for the Armed Forces and our investment in the new

building will help sustain this into the future."

Rik Sellwood, QinetiQ Site Manager at Aberporth, added: "The investment is a commitment to the area for the foreseeable future and will allow the site to go from strength to strength. We are constantly striving to be good neighbours and ensure that we work closely with the local community for everyone's benefit."



Above: Aberporth on the coast of Cardigan Bay.
 Below: QinetiQ testing under the LTPA



Next generation: a computer image of how the new building at Aberporth will look

A well-oiled machine

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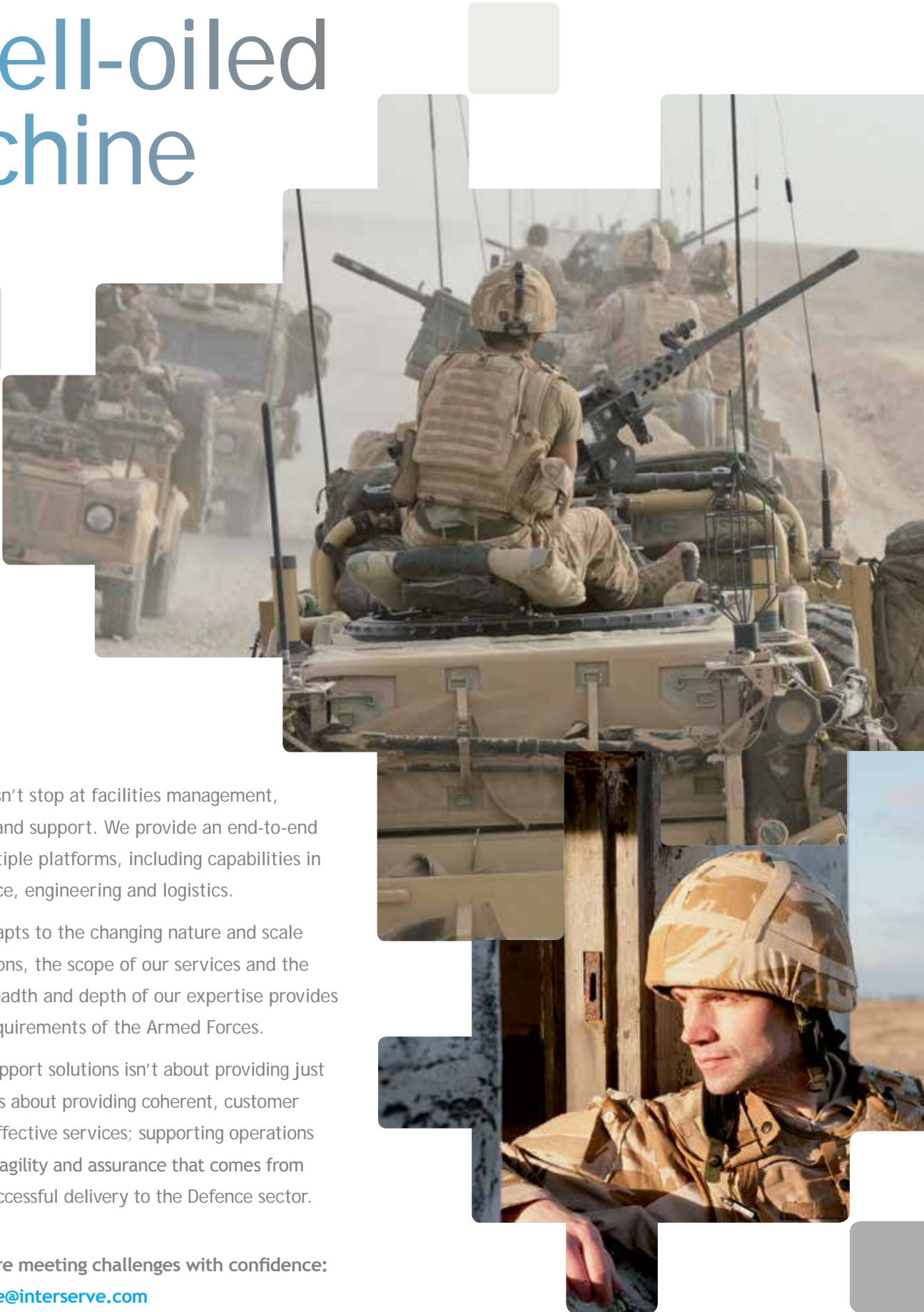
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MOD 'confident' on Equipment Plan's affordability

THE MOD has made some progress this year in controlling costs on its major projects and managing the way it procures equipment, the Public Accounts Committee (PAC) said after examining both the MOD Equipment Plan 2013-23 and the National Audit Office (NAO) Major Projects Report 2013.

Margaret Hodge, Chair of the PAC, said: "However, we still have concerns over whether the MOD's Equipment Plan is affordable.

"There are some big uncertainties. The Ministry underspent by a huge £1.2 billion on the Equipment Plan in 2012-13. Yet it has no idea whether this is because of genuine savings or whether costs are simply being stored up for later years because of delays on projects.

"If the department does not address this underspending it will be tempting for the Treasury, in seeking further public expenditure reductions, to take these underspends as savings at the expense of the defence equipment capabilities our armed services need."

Minister for Defence Equipment, Support and Technology Philip Dunne said: "I am pleased that the PAC has recognised the radical changes that have taken place to bring spending and procurement

MPs raise questions over 2012-13 underspend



Prudent: Philip Dunne

under control. We are confident that the £164 billion ten-year equipment plan is not only affordable, but sustainable, meaning we no longer have to make short term cuts that delay programmes.

"By balancing the budget for the first time in a generation, we are now able to prudently protect our underspend thanks

to an exceptional agreement with the Treasury so we are ready to fund future priority projects and ensure our Armed Forces get the equipment they need at the best value for the taxpayer."

The PAC took evidence from Jon Thompson, Permanent Secretary, David Williams, Finance Director, Bernard Gray, Chief of Defence Materiel, and Air Marshal Sir Stephen Hillier, Deputy Chief of Defence Staff, before publishing its report.

The PAC said MOD still had work to do to properly understand support costs, which accounted for over half of the annual spend on the Equipment Plan.

Project and cost control of individual projects was still too often not well managed and project teams did not yet have enough staff with the right skills to employ proper cost and risk management techniques, while good practice in cost and risk modelling was not consistently applied.

The MOD did not have the robust measures of outturn against forecasts it needed to fully understand the variations in spending against plan, but was moving forward in this area.

The PAC said that given the state of the public finances MOD should plan how it would manage on a reduced budget and resolve key skill shortages.

The Public Accounts Committee's recommendations were:

- MOD should establish processes to improve data at project level, covering progress and spending against forecast to understand the causes of under or overspends;

- MOD should complete work on support costs to provide accurate data to the NAO for it to report on the Equipment Plan for 2014-2024;

- MOD should ensure all project teams apply good practice in cost and risk modelling to help develop its understanding of aggregate risk across the Equipment Plan;

- In its annual statement to Parliament on the affordability of the Equipment Plan, MOD should report progress on efficiency savings in major programmes;

- MOD should pursue all options to enable it to meet its skills requirements, including engaging with other departments experiencing similar problems.



Abbey Wood service personnel air views on pay and conditions

SERVICE PAY and conditions were high on the agenda as members of the Armed Forces Pay Review Body visited Abbey Wood.

David Ball, Director Human Resources at DE&S, welcomed Review Body members Vilma Patterson and Judy McKnight along with members of the Office of Manpower Economics, members of the Body's secretariat, two representatives from the MOD and two staff members of RAF Pay Policy.

Members took part in discussions with military personnel, including one group involving spouses, to obtain

views on the current remuneration package as well as non-remunerative issues which affect their daily lives.

The visiting party also reviewed local service accommodation and received an informative presentation on improvised explosive devices from David Penlington, Head of Force Protection, and members of his team.

Pictured left: David Ball, centre, is joined by visitors to Abbey Wood before discussions on pay and conditions

Carrier No 2 is already quick off the blocks

Prince of Wales coming up on the rails as *Queen Elizabeth* heads for launch

HMS *QUEEN Elizabeth* has captured headlines over recent weeks, as plans are underway for her naming ceremony at Rosyth next month.

Meanwhile, teams working on her sister ship, HMS *Prince of Wales*, at sites across the country are delivering results.

The mid-section of the second aircraft carrier, known as Lower Block 03, will be the first major hull section of *Prince of Wales* to be delivered from BAE Systems in Glasgow to Rosyth in the middle of next month and is already complete.

Applying lessons learned from construction of the first ship, the team achieved a 12-month reduction in the build schedule compared to the same block for her sister ship, with improved safety performance and a 17 per cent overall efficiency saving in terms of staff hours.

Angus Holt, the ships' Block Delivery Director at BAE Systems, said: "We are committed to driving continuous improvement in all aspects of what we do and the changes that we've made on the programme are making a real difference.

"We operate a culture of personal responsibility and our employees' attitudes towards safety have led to significant improvements. In two years and over a million hours worked on Lower Block 03, not one employee has taken time



Round the block: Lower Block 03 of *Queen Elizabeth*, giving an idea of the sheer size of the carriers. *Prince of Wales*' block is close to its journey to Rosyth

off work due to a work-related injury."

BAE Systems is taking the same approach to improving quality standards and has introduced a system of coaching employees in quality techniques to drive improvements right across the business.

As a result, the team has increased the quality of Lower Block 03 and reduced time spent on incorporating change by 65 per cent. This has enabled BAE Systems to increase the scope of work completed on the 9,300-tonne block at Glasgow to include activity which was initially

planned for later in the build process and the block will be delivered to Rosyth in a more advanced stage than any other unit in the programme to date.

Mr Holt attributes improvements to the relationships developed between delivery teams, including major sub-contractors. He said: "The carriers are complex and this block alone houses more than 9,500 pipes and 280,000 metres of cable. All of the teams have analysed their own areas of responsibility and have developed action plans to drive improvements."

Warship design to get investment boost

BAE SYSTEMS has embarked on major investment to overhaul design and build of complex warships.

The programme includes spending on infrastructure and advanced manufacturing technology and processes and is already delivering results.

"We are proud of the role we play in supporting the Royal Navy and we want to be recognised as a

business that delivers on time, on budget, and offers unquestionable value for money," said Mick Ord, Managing Director of BAE Systems' Naval Ships business.

"So we are looking across all aspects of our business to identify opportunities to improve performance and quality and generate savings that can be passed on to our customers."

BAE Systems will create new facilities to accommodate the company's engineers at a single site at Scotstoun. This will enable the company to complete all stages of the design and build process under cover, in a safer, controlled

environment. The company is determining cost, performance benefit, and impact on the environment and local community. This will form part of its Type 26 proposal, which will be submitted to the MOD later this year.

A new Visualisation Suite at its Glasgow site projects interactive virtual prototypes of warships under design onto a huge screen. This technology enables key stakeholders across industry and the military to review the design in a way never before possible.

BAE Systems is now planning to create four more across its sites in Glasgow, Filton and Portsmouth.

The Visualisation Suite will also play a key role in the Offshore Patrol Vessel programme for the Royal Navy and will support the detailed design of the new manufacturing facilities in Glasgow.

■ L-3 Marine Systems UK has completed factory testing of Software Release 4 for the carriers' Integrated Platform Management System (IPMS).

Release 4 represents the latest in six months of software deliveries for the carriers and is notable for its sheer size of 44,000 monitored points and 320 operator pages.

The system uses the common shipwide network infrastructure to permit real time information exchange with the carrier's mission systems. L-3 MSUK is supplying the IPMS to Thales UK for installation in the vessel under construction in Rosyth.

The PMS will be contained in 250 cabinets across the ship.

New medical centre opens

A CENTRE for all defence medical training has opened in Staffordshire.

The Duchess of Cornwall dedicated the new home of defence medical training, Defence Medical Services (Whittington) on 8th May, marking completion of a major building project.

Nearly £140 million has transformed the centre into a unified headquarters for the Defence Medical Services, bringing together defence medical training into one specialist site.

The new complex includes a learning centre, library and lecture theatre, 736 new bed spaces in the living accommodation for permanent staff and trainees, and a junior ranks dining and welfare facility.

Around 7,000 trainees and students will now be able to develop their medical training for UK Forces every year at the new site.

More than 1,100 service personnel are based at the new site.

Latest Bowman support takes on a five-year look



Soldiers from the Household Cavalry on operations in Afghanistan. In the centre is PRC-177F tactical satellite radio while the soldier to the right is using PRC-325 HF radio

TWO FIVE-year contracts with General Dynamics UK will provide design, engineering and logistic support for Bowman radios.

The Bowman system allows personnel on land, at sea and in the air to communicate on operations around the world.

Bowman uses an encrypted frequency to share intelligence and increase situational awareness and has seen extensive service in Afghanistan by troops on patrol, on Royal Navy ships during relief efforts in the Philippines, and by the RAF when providing air support to land operations.

Around 140 jobs will be sustained at GDUK's site in Blackwood, near Newport in south Wales, with more roles secured in the wider supply chain by the £364 million investment.

Colonel Rich Spencer,

leader of the Battlefield Tactical Communication and Information Systems team, said: "Bowman plays an essential role on operations allowing front line users to share vital information around the battlefield and it is essential that we continue to support this capability, while also delivering value for money to the taxpayer.

"Securing these contracts with GDUK is a significant achievement for the team delivering reliable and continued support to the Land Environment tactical CIS capability.

"It is also noteworthy that a further £1.5 million worth of contracts will be placed with Harris Systems, Cobham TCS, Selex ES and Esterline Control and Communications and Surveillance Systems to deliver design services support across the tactical CIS portfolio."

Chief Operating Officer of GDUK, Steve Rowbotham, added: "With our proven supply chain and support infrastructure, General Dynamics UK is uniquely placed to successfully deliver these contracts in parallel and ensure that the British Armed Forces have the security of supply and support as they continue to meet operational requirements around the world.

"We are delighted to be able to continue with the successful partnership that has delivered secure tactical communications to the British Armed Forces, building on this unique UK sovereign capability."

The new contract will see improved management of the radios and repair services. It will also allow competition within the supply chain to be opened up which is expected to deliver even better value for money.

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DVD 2014

DVD 2014 is the ideal opportunity to engage industry, both the key suppliers and the small and medium enterprises, in informal discussions about the upkeep and development of land equipment to ensure future sustainability. The focus of DVD continues to evolve from the vehicle and UORs of previous events to through-life support and the recovery from operations. As the combat mission in Afghanistan closes, the focus for equipment planning and support shifts towards contingent operations and delivering the Army 2020 structures.

A desirer guide to this year's key stakeholder event

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Iveco DV's range of Multirole Vehicles, Tactical and Logistic Trucks and Armoured Fighting Vehicles covers the full spectrum of on- and off-road military requirements and represents a well thought through, comprehensive and effective response to the needs of the military customer. Iveco recognises that this needs change in response to the evolving operational environment, developing doctrine and changing threat. As a part of the company's commitment to our custo-

mers' needs, we aim to identify or anticipate at an early stage how requirements are likely to develop.

As a result, the whole product range is subjected to a continuous development process. Evolving needs are fed back to Engineering, who in turn develop a steady stream of enhancements in terms of payload, mobility and protection. Where necessary, complete new vehicle families are developed.

‘DVD2014 is the ideal opportunity to engage industry, both the key suppliers and the small and medium enterprises, in informal discussions about the upkeep and development of land equipment to ensure future sustainability.

Not only will I be able to engage with industry but the key representatives from my customer base will be present, allowing full stakeholder engagement and participation.

DVD is a unique event; it has a relaxed but industrious environment. With all of my stakeholders present in the same place, it is an efficient way for me to conduct most of my key supplier engagement over the three days.

The event also enables visitors to see equipment deployed in the environment it operates, and there is no substitute for the opportunity to drive, operate and handle equipment that is available at DVD.

Land Equipment within DE&S conducts a range of procurement and sustainability projects, from the large to the small. It is all too easy to be drawn into visiting our big industrial partners – but take the time to visit the smaller ones. They are just as important as they frequently provide our bespoke requirements and they often have the flexibility that others do not. In a world of limited resources, flexibility and the ability to react to changing requirements is fundamental to the success of the equipment programme.

The focus of DVD continues to evolve from the vehicles and UORs of previous years to through-life support and the recovery from operations. As the combat mission in Afghanistan closes, the focus for equipment planning and support shifts towards contingent operations and delivering the Army 2020 structures at a time of austere funding.

To enable this transition we need to be innovative in the way in which equipment can be prepared for the new roles and sustained efficiently. DVD2014 provides a perfect opportunity to reflect on this challenge and for industry, the Army



Land equipment focus: Kingsman
Andrew Lock of the Duke of Lancaster's Regiment Reserve on exercise in the Australian bush last month

‘Relaxed but industrious’

Brigadier James Daniel, Head of Soldier System Programmes at DE&S, previews DVD2014



and DE&S to review the equipment capabilities, requirements, technologies and processes that will deliver this transition.

The continued engagement of all stakeholders will be needed to make the event a success. By engaging the Army in discussions and seeking feedback from them, industry will be well placed to set realistic requirements that ensure delivery of the right products, to the right people, at the right price and at the right time. As with last year DVD2014 will have major emphasis on the Army's development in engaging feedback from the front line and I commend Army HQ in recognising this and taking important steps forward to work with government and industry on sharing best practice and strengthening relationships.

Although DVD is a much more niche event than bigger defence events, the level of intimacy and demonstration opportunities at DVD has seen it remain the Flagship event for defence land equipment over the past ten years. The frank dialogue and coherent meetings with users which have continued to take place since the launch of the event in 2003 have been key drivers in its on-going success.

DVD2014 is the opportunity that visitors will have to see and experience a broad range of land equipment, not just vehicles, but hand-used equipment and camp infrastructure too.

Seeing all the elements of land equipment in one setting helps increase understanding and synergies between them.’

Scout – a new Army capability and a centrepiece of DVD2014

For more information on DVD2014 go to:
www.theevent.co.uk



Scout, minus turret, on trials in Spain

SCOUT SPECIALIST Vehicle (SV) is a new capability which, subject to MOD approvals, is expected to replace the in-service CVR(T) fleet, which is now more than 40 years old.

Scout SV is a key element of Army 2020, is currently in its demonstration phase and is expected to provide the Army with its future capability requirements. It will be the first UK fully-digitised tracked armoured vehicle, with built-in weight and power growth, designed with human factor integration from the start.

Scout SV will provide a manned, all-weather, persistent, intelligence gathering capability, while also acting as a powerful information processing hub, to enable critical decision support in complex operating environments, as well as the ability to conduct a range of offensive actions. It effectively delivers a powerful

base intelligence, surveillance, target acquisition and reconnaissance-like capability from a mobile platform to meet the demands of contingent operations.

General Dynamics UK, the prime contractor of Scout SV, will be showcasing one of the pre-production prototypes of the Scout variants at DVD on 25th and 26th June. This variant will be the Protected Mobility Recce Support.

Scout will provide a host of benefits to the Army including improved agility and manoeuvrability over any existing armoured vehicles. It will provide improved protection when compared to legacy armoured vehicles such as the CVR(T). It has a chemical, biological, radiological and nuclear system hardened against attack and includes industrial hazard detection. The vehicles will be built for the modern soldier so they can accommodate the vast majority of troops, making them safe and legislatively compliant.

The Cased Telescoped (CT) cannon is planned to be integrated into both Scout SV and Warriors upgraded under the Warrior Capability Sustainment programme as their main armament, and also used on the French EBRC Armoured Vehicles.






An integrated CT cannon will provide many benefits when compared with the in-service 30mm Rarden cannon, having the ability to fire on the move, providing greater lethality, and giving an unrivalled punch for its size.

The unique cannon is also expected to offer export opportunities, with overseas interest already apparent. The 40mm CT cannon and ammunition is a collaborative programme between UK and France. The CT cannon is produced by CTA International, a joint venture between the companies BAES and Nexter (see page 31).




The Scout SV programme will provide greater use of simulators than previously deployed by the Army to enable an effective balance between live and simulated training. There will be on-board training allowing mission rehearsal when deployed to prepare the end users. The simulators have potential to be linked to create a wider collective training simulated environment.

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THE 40mm Cased Telescoped (CT) Cannon and the first two natures of ammunition have successfully completed the qualification phase of development – they have now been accepted as safe to use, meeting performance requirements.

The achievement of the qualification of the cannon and ammunition is a significant milestone for the Scout SV and Warrior Capability Sustainment Programmes programmes in meeting their lethality requirements.

The qualification of CT cannon and Armour Piecing Fin Stabilised Discarding Sabot-Tracer (APFSDS-T) and Target Practice-Tracer (TP-T) rounds started in 2010 and has included a gruelling set of tests on the cannon and ammunition which included safety and functional trials in ambient and extreme hot and cold conditions.

In addition, the ammunition was sequentially vibrated, shocked, heated, frozen and dropped to a specification which simulated a very tough in-service life, before being inspected and fired.

Final qualification trials were completed last December, giving the evidence in the safety and environmental case report which has been reviewed by the Defence Ordnance Safety Group and the Ordnance Safety Review Panel for their recommendation that CT cannon and ammunition is safe to use.

The MOD is responsible for delivery of the CT cannon and ammunition as Government Furnished Equipment (GFE) to the Scout SV and Warrior CSP demonstration and manufacture phase prime contractors, General Dynamics UK and Lockheed Martin UK respectively. The companies will

The 40mm cannon will give unrivalled capability to the user for its size

now be able to take the cannon into full integration for the for their respective platforms trials.

Work will continue on qualifying further natures of ammunition at later dates; these include General Purpose Round Point Detonating-Tracer (GPR-PD-T), General Purpose Round-Air Burst-Tracer (GPR-AB-T) and other low cost training versions of both service natures for the user.

The 40mm CT cannon and ammunition is a collaborative programme between the UK and France. The CT cannon is produced by CTA International (CTAI), a joint venture between the UK and French companies BAES and Nexter.

CT cannon is planned to be integrated into both Scout SV and WCSP as their main armament, and also used on the French EBRC Armoured Vehicles. An integrated CT cannon will provide many benefits when compared with its predecessor, the in-service 30mm Rarden cannon which was brought into service in the early 70s.

The 40mm cannon has the ability to fire on the move, provides greater lethality, and gives an unrivalled capability to the user for its size. The CT cannon and ammunition are also expected to offer export opportunities, with overseas interest already apparent from a number of areas.

Cannon will give Scout and Warrior lethal firepower



The 40mm cannon and its ammunition has already come through a gruelling series of tests

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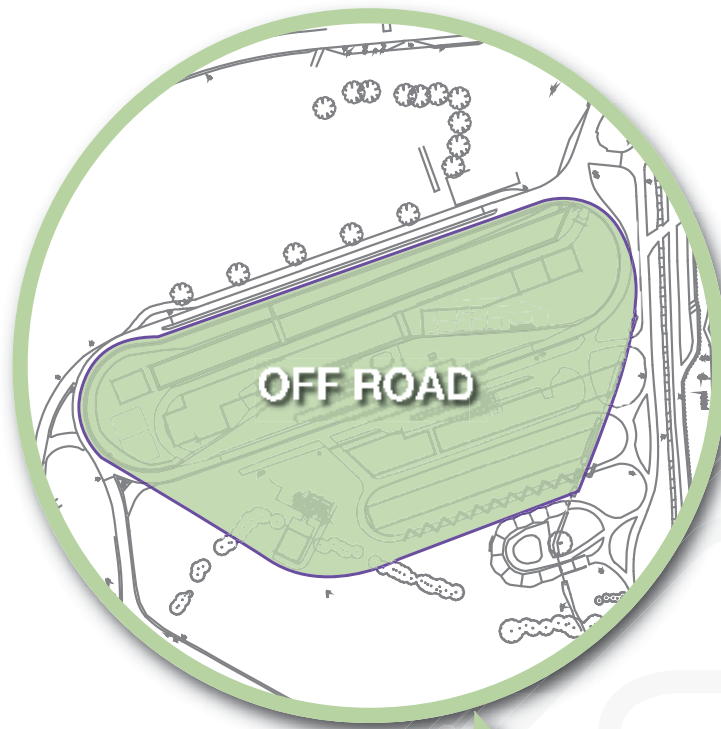


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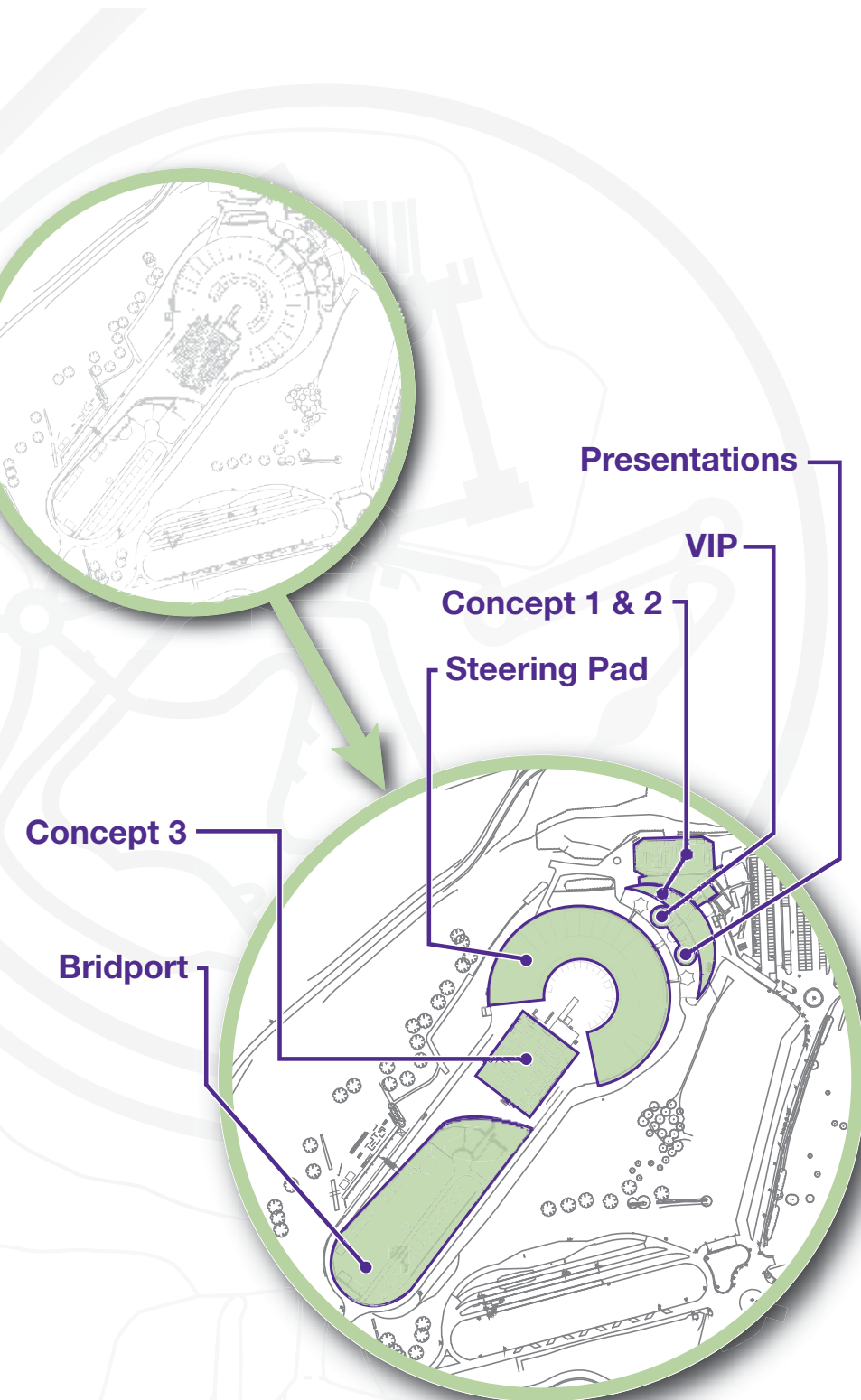


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THE CHALLENGER 2 Life Extension Project (CR2 LEP) – a concept phase project in the Land Equipment Operating Centre – will enable the UK to field a battle tank up to and beyond 2035.

The project will address ageing systems on the tank which would no longer be supportable beyond 2025 without intervention of a major programme.

The 2010 Strategic Defence and Security Review directed the UK to retain battle tank capability beyond its current out of service date of 2025.

Challenger 2 has been in service for 15 years and, while it will still have an important role to play, environments have evolved.

A number of studies have been undertaken with BAES, the design authority (Combat Vehicles UK) and the Defence Science and Technology Laboratory at Fort Halstead over the past year to inform the requirements set, identify areas that could reduce through life costs and future proof the vehicle.

Armoured Vehicles Programmes are about to conduct a Request for Information to inform the future procurement strategy via Defence Contracts on-line.

Army Reservists take part in live firing exercises in a Challenger 2 tank on ranges in Dorset



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Field Water Heater System

INNOVATION IN the guise of the Field Water Heater system to replace the M67 (Puffing Billy) is the latest piece of technology set to improve the quality of life of service personnel while deployed on operations and exercises, right.

With this new piece of equipment, 60 litres of water can be readily boiled safely, providing water for personal hygiene, wash-up, heating of wet pouched rations and for hot drinks (the latter two applicable when potable water is used).

Using thermoelectric technology, minimal working parts, being readily maintained in the field and conforming to Nato Single Fuels Policy, the Field Water Heater system has already proved a winner with military. This system has recently reached Full Systems Acceptance.



Operational view toward

THE JOINT Operational Fuel System (JOFS) provides deployable fuel handing equipment – think of a petrol station that can be set up wherever needed.

Modules can be used alone or combined and deliver capabilities such as loading and unloading fuel tankers, refuelling vehicles and aircraft, and dealing with the clean up operation if a tanker was to be involved in an accident.

JOFS replaces much of the Tactical Fuel Handling Equipment (TFHE), in service for many years, which was manpower and time intensive.

JOFS is easier and quicker to deploy due to its modular nature and improved codification; planning the lay down of JOFS equipment is simpler and only one stock number is required to demand a capability module, rather than a long shopping list as was the case with TFHE.

JOFS modules range from large primary bulk fuel installations which can be installed and commissioned within one hour, to much smaller light forces modules which are used by rapid reaction units.

JOFS also has a Contractor Logistic Support arrangement to improve the availability while also providing a single point of contact for users.

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Future Protected Battlefield Ambulance

THIS WILL be a protected battlefield multi-role ambulance, which will enable protected movement of casualties in theatre, while delivering clinical care.

It will enable delivery of ground medical emergency response teams, trauma management, high and low dependency casualty transfer and primary healthcare from within a protected mobility platform by 2020.

This multi-role vehicle is expected to be employed in combat support medical regiments supporting armoured and protected mobility forces and will be able to deliver surgical intervention as far forward as point of wounding.

The project is going through its concept phase.

Multi Role Vehicle – Protected

THE MRV-P capability is intended to meet the requirement for a protected deployable vehicle employed by all force elements, at all scales of effort, in a wide range of environments, and in indirect fire zones of the battlefield by 2020.

The MRV-P should bring commonality to the fleet and reduce the logistic footprint for utility vehicles. The top level roles for MRV-P are: command and communications post vehicle, command and liaison, general purpose vehicle – logistic, and general purpose vehicle – Pax.

The project is currently going through its concept phase.

support – the s 2020

**Joint
Operational
Fuel
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Catering in the field:
the new deep fat fryer
will help chefs exceed
expectations

Deep Fat Fryer

FIELD CATERING is a demanding discipline that has to exceed expectations of personnel. Meals are often the highlight of the day and provide the status quo to the frenetic life that operations bring with it.

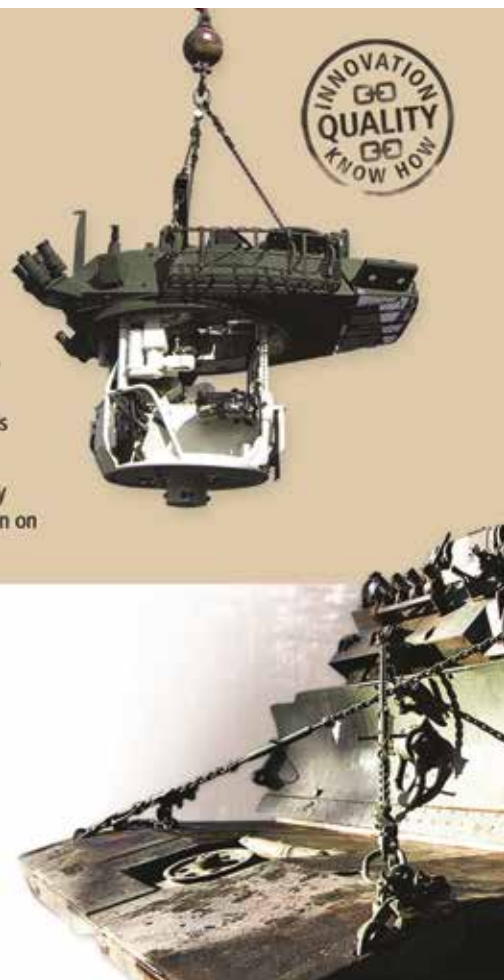
As such, comfort foods like fish and chips are a welcome sight at the servery, although often provided by means of remote gas burners with no means of temperature control.

With the introduction of the multi-fuelled deep fat fryer to the chef's arsenal, with its three set temperature ratings and an overriding safety temperature cut-out, a vast array of food can now be offered safely in the field, expanding the menu range, and reducing potential menu fatigue.

Compact, quiet and fuel efficient, the fryer has been tried and tested in anger and is a popular accessory in the field kitchen, complementing the current standard cooking equipment.

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EXHIBITING AT

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What will industry bring to DVD?

IA TECHNOLOGY is an established supplier to the MOD, developing and providing life-critical systems and solutions for operations in some of the world's harshest environments.

Now manufacturing to meet the AS9100 Rev C standard, the company's Force Protection systems are used in theatre where IEDs are a constant threat to UK land forces.

IA Technology was awarded a Min(DEST) Acquisition Award in recognition of mission critical work in countering IEDs for British and coalition forces in Afghanistan.



SAFETY DEVICES will be displaying a 6x6 Pinzgauer soft-top with complete roll over protection on its stand in the steering pad area at DVD2014.

The Pinzgauer, originally manufactured in Austria, is a formidable workhorse, an all-terrain truck built to cope with the most difficult conditions. Although designed to carry goods and equipment, increasingly it is used for transporting troops.

Safety Devices has developed its own demountable roll over protection structure to protect occupants back and front incorporating driver and front passenger escape hatch and spare wheel mount.

POLICE RESOURCES International will be presenting load carriage solutions from Berghaus and Grey Ghost Gear as well as new products from Karrimor SF.

PRI is now the UK distributor for Berghaus Military which complements the Karrimor SF range which PRI has been distributing for the past 16 years.

Karrimor SF and Berghaus are probably the two best known load carriage brands to the British soldier.

The PRI & Karrimor SF team designed the Issue 45L patrol bag for the MOD as well as the 60mm Mortar Bergen, Individual Hydration system, the ECM Bergen and the Bowman Radio Bergen.

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PEARSON ENGINEERING will be showcasing its route proving and combat earth moving capabilities at DVD.

An example of their work is the Barbadian Super Light Weight Roller, the Counter-IED system which was supplied last year to the British Army for deployment in Afghanistan.

The company provided 69 sets of the rollers which are optimised for use with light weight vehicles such as the Husky.

The company's products are supplied as vehicle attachments and may be fitted either directly or via a common interface system.

Their quick and easy attach and release ensures that the right equipment is available for the job when it is needed.

Pearson's products include mine ploughs, combat dozer blades, earth anchor blades, excavator arms, bridge launch mechanisms, mine rollers,



Rollout: Barbadian has proved successful in Afghanistan

surface clearance devices, obstacle marker systems, IED route clearance systems and vehicle remote control systems.

AVENA, A maker of high-specification, military-grade fibre optic connectors will have a range of working expanded beam connectors for visitors to see, touch and generally 'get to grips' with. EADS Skynet 5 and Reacher systems use Avena products

DENCHI POWER supplies smart batteries and intelligent chargers to the global defence industry.

One example is Denchi Power's 'power scavenging' Soldier Portable Charger (SPC) which is in service with the MOD providing flexibility to the soldier in terms of re-charging of radio batteries.

P & P TECHNOLOGY manufacture screening and shielding products.

Some of the projects they have been involved with include oriented wire in silicone gaskets for Warrior fighting vehicles and Scout SV, vents for air-conditioning/control units for vehicles and Type 45 destroyers, gaskets for remote control bomb disposal robots, Joint Strike Fighter (nickel graphite), Eurofighter Typhoon (silver aluminium), naval gun control systems and radar systems.

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MILLBROOK WILL host its third annual Millbrook Alpine DVD (MAD) challenge on the eve of DVD – a 5km Alpine and off-road race to raise funds for Help for Heroes.

The 24th June race will take competitors through a variety of terrains, from sinking in sand and gravel to scrambling up steep hills, with gradients of up to 33 per cent. The finish line will be at Millbrook's Wading Pond, with runners splashing their way to the end of the course.

"MAD is definitely the right word to describe Millbrook's 5k challenge", said Julian Bryan, head of special projects and vehicle groups at Millbrook.

"Following the success of the first challenge in June 2012 which raised more than £3,750, and last year's event, which raised more than £4,000 for Help for Heroes, I hope that MAD 2014 will see the same level of participation and success.

"As one of the largest employers in Bedfordshire, Millbrook is always keen to involve its staff and partners in exciting activities that help build strong relationships and support charities," said Mr Bryan.

Entry is restricted to DVD exhibitors/guests and invited personnel but please donate to support Help for Heroes.

For an entry form send your name and email address to mad5k@millbrook.co.uk or to donate visit <http://www.bmycharity.com/MAD2RunItAgain2014>.

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Fire and Brimstone!

Latest trials see anti-armour missile released onto target from Reaper



Flashpoint: Brimstone makes short work of a moving vehicle

TRIALS IN the United States to integrate the Dual-Mode Seeker Brimstone missile onto Reaper have been successful.

The trials demonstrated rapid integration of the missile onto the MQ-9 Reaper remotely piloted air system – safe carriage, safe release and system targeting – with a high success rate against static and high-speed manoeuvring targets.

Both integrated semi-active laser and active millimetric-wave radar seeker were demonstrated, including working in tandem. This ensures the desired target is selected to minimise collateral damage before the missile switches to millimetric-wave terminal guidance to hit manoeuvring targets.

Richard Leighton, Head

of Brimstone at MBDA said: “The dual-mode seeker and robust guidance capability of Brimstone is uniquely placed to enable beyond-line-of-sight, remotely piloted aircraft to

‘It has been a fantastic achievement in only nine months’ – Richard Murray, DE&S

deliver the same low collateral damage effects with the same precision as that demonstrated already by the RAF with Brimstone on Tornado GR4

fast jets on operations in Afghanistan and Libya.

“A multi-role/multi-platform approach delivers reduced whole life cost ownership of complex weapons and demonstrates value for money through the very high single shot effectiveness minimising waste and collateral damage.”

Richard Murray, DE&S’ Maritime and Air Weapons Systems team leader, added: “The success of these trials continues to demonstrate the huge potential for spiral development of the Brimstone family of weapons across a breadth of operational environments.

“It has been a fantastic achievement in only nine months, made possible through the excellent joint working between the MOD, industry and our US partners.”

A captive carry of avionics and environmental data gathering missiles had begun the trials, proving successful integration of the two systems and gathering additional evidence to support future clearance activities.

The trials at Naval Air Weapons Station China Lake were conducted by the RAF’s Air Warfare Centre Unmanned Air Systems Test and Evaluation Squadron, DE&S’ Weapons Operating Centre, USAF’s Big Safari Organisation, General Atomics Aeronautical Systems, and MBDA.



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Discipline and responsibility – all in a day's work at DE&S

Bernard Gray, Chief of Defence Materiel, has outlined the qualities that have impressed him in the latest round of commendations

PERSONAL RESPONSIBILITY and discipline were top of the behaviours demonstrated by winners in the latest round of Chief of Defence Materiel Commendations.

Nearly 200 staff, both military and civilian, gathered in Main Building on 9th May to be honoured with a Commendation from Bernard Gray, Chief of Defence Materiel, for their achievements in projects which had contributed to better acquisition and support for UK Armed Forces.

Master of Ceremonies, Director Human Resources David Ball, opened the event by explaining that CDM

attached a great deal of importance to the Commendations and spent a considerable amount of time personally reviewing all entries. "This occasion is the biggest recognition that we can offer in the acquisition community," he said.

In a wide-ranging speech, CDM identified the key themes that ran through many of the successful projects. He told the audience: "Today is my favourite occasion of the year. This is a fantastic set of achievements and this is the shop window behind which a huge

amount of other activity goes on to an extraordinarily high standard".

He had, he said, spent the previous day at Devonport being shown around a nuclear submarine and a Type 23 frigate, and witnessed a range of other activities. "What we do is extraordinary and unprecedented," he said. "Today always reminds me of the passion that everybody puts into the huge range of activities at DE&S. It is above and beyond what is normally required and the passion and experience of people at DE&S is, to me,

❑ [Full list of commendations: pages 44 and 45](#)



exciting and humbling.”

“Teams and individuals have taken personal responsibility when it comes to resolving issues,” he said.

“Sometimes it is an urgent need, sometimes a technical issue. Either way, teams and individuals have grabbed their subject and said ‘it is important the issue is sorted out, so I’m taking responsibility for it’.

“That kind of commitment and personal courage exists so widely across the organisation and it is hugely reassuring to me that we can take on challenges and resolve them.”

“Responsibility underpins every achievement we are celebrating today.”

CDM added that team and personal discipline was essential to successful completion of projects, and he singled out the Tortworth team – honoured for their work dealing with the future refuelling of Trident submarine *HMS Vanguard* – as an example of the single-minded approach to work.

“We worked on a highly sensitive issue for two years. Between 50 and 75 people were aware of the issues surrounding it. Yet I commend everyone for their discipline throughout the project. We got through those two years to when the Secretary of State made his announcement recently and nobody said a word to anyone which leaked out. That shows a huge amount of discipline.”

Commendation winners were praised

– along with all staff – for their part in DE&S taking significant steps forward relative to recent years.

“It is the best year we have had in the last seven – arguably the last ten – years, and that has been against a background of a huge amount of change,” he said.

“We now have a much more stable environment in which to perform the tasks we have to do.

“We have achieved a huge amount. It has been hard work and we have had to change some of our ways of thinking and working. But we have negotiated much better deals with industry than we have had before and we now hold our own in those negotiations. I want to build on that increasing sense of self-confidence. We are in the business of being able to deliver on time; that builds capability; today is part of that. Let’s all take inspiration from today into our programmes and come back next year with a new set of worthy winners.”

And CDM spoke of what it meant to him to be Chief of Defence Materiel. He said: “I am hugely proud to lead this organisation and I know how much hard work goes into achieving results. You have all achieved a huge amount in the last year. I am proud of you and I hope you and your families are proud of what you have done. Please enjoy the day. It’s your day; thank you for all your hard work getting us to this point. I applaud you all.”

CUSTOMER COMMENDATIONS

- Among teams and individuals who received additional praise from DE&S’ Armed Forces customers and the DE&S Executive Team was the Warrior Output Cell. Col Martin Court, speaking on behalf of Director General Logistics, Support and Equipment, Major General Richard Semple, said the team had done a superb job in quickly designing, delivering and fitting modification to improve Warrior vehicles on Operation Herrick.

- The Ice Patrol Ship team was praised by Assistant Chief of Naval Staff (Capability) Rear Admiral Duncan Potts for working long hours without any additional resources to complete the complex negotiations necessary to secure the very important capability of *HMS Protector* for the Royal Navy.

- The Materiel Strategy Team was told by Chief of Materiel (Joint Enablers) Pete Worrall that they were delivering probably the most challenging change programme across Government today and were providing the ‘link’ that had been missing from earlier attempts to reform acquisition. This ‘missing link’ was the freedoms granted to DE&S to improve delivery.

- Navy Command Finance Director Louise Tulett praised Commendation recipient Jonathan Pollock for his exemplary efforts in driving improved value into the Firefighting Training Unit private finance initiative.

- The Tomahawk All Up Round Procurement Team was told by Rear Admiral Duncan Potts: “This capability is key for the Royal Navy and for defence more broadly. In all our campaigns this century this missile system has provided the day one capability the nation wanted.”

- The Hercules Integrated Operational Support Team was told by Air Officer Commanding 2 Group, Air Vice-Marshal Sean Reynolds, they had done vital work in ensuring that five Hercules transport aircraft and a BAe146 aircraft, which had been severely damaged in an extremely powerful hailstorm at Kandahar air base, had been successfully returned to service. He said: “In terms of the whole force concept of operations – this was it, the military, MOD civil servants and contractors all working together.”

- Col Martin Court, speaking again on behalf of Maj Gen Semple, said before a Commendation was given to Major Darrell Skimming that he had done a first class job in resolving many accounting challenges on communications equipment which will ensure its efficient drawdown from Afghanistan.



Commendation Winners

INDIVIDUALS



- **Major Darrell Skimming** – Battlefield and Tactical Communications Information System Team: for a pivotal role in redeployment of £200 million of communications and information assets from Afghanistan



- **Mr Gareth Hind** – Network Technical Authority Team: as subject expert and leader for identity and access management



- **Chief Tech Mark Wallis** - Airseeker Team: for innovation in delivering ground support equipment and tooling at least equal to that used by the US Air Force RC-135W aircraft

- **Mr John Moore** – Chemical Biological Radiological and Nuclear Team: for successful delivery of the tactical variant of the Network Biological, Radiological and Chemical Information System initial operating capability ahead of schedule

- **Mrs Susan Wildman** – Defence Support Chain Operations and Movements Team: for improvements to provision of projects and capability through the Urgent Operational Requirements process

- **Mr David Hayward** – Special Projects Communications, Information, Surveillance and Reconnaissance Team: for enhancing a critical command and control capability for specialist users

- **Mr Lee Carson** – United States Naval Nuclear Propulsion Program: for establishing and leading the US Field Office in the UK from 2008 to 2014

- **Mr Chris Dovey** – Operational Support Vehicles Programme Team: for his role in the Heavy Transporter regeneration project and modification of the interim Light Equipment Trailer

- **Mr Jonathan Pollock** – Defence Equipment and Support Commercial Command & Centre - Navy Team: for driving improved value into the Fire Fighting Training Unit private finance initiative

- **Wg Cdr Mark Johnson** – Strategic Transport and Air-to-Air Refuelling Project Team: for leadership in providing a safe and available VC10 capability beyond the planned out-of-service date

TEAMS



- **Logistic Commodities and Services (Forward) Team:** recognising the team's role in support of Operation Herrick deployment, particularly in the strategic base where the standard of materiel returning has improved vastly

- **Defence Fuels and Food Services, Supply Chain Management Inventory Team:** for providing a professional service during a period of extreme pressure

- **Unmanned Air System Team, Maritime Urgent Operational Requirement Team:** for delivering Scan Eagle, fully operational and certified within ten months

- **Scout Specialist Vehicle Programme Team:** for exemplary service in delivering the Scout Specialist Vehicle Programme through the complexity of a defence review, restructuring and contract renegotiation

- **Availability Transformation Tornado Aircraft Contract Phase B Team:** for successful negotiations to deliver the ATTAC Phase B at a saving of £89 million

- **desider Team:** for developing DE&S' magazine into a commercial success, earning advertising revenue of at least £500,000 in the last financial year

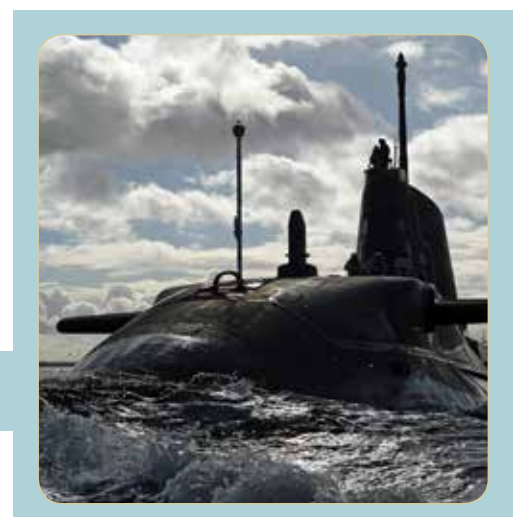
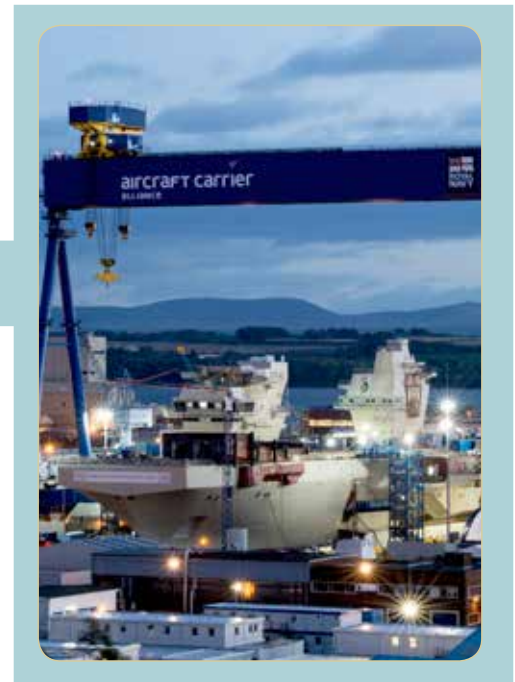
- **Ice Patrol Ship Project Team:** for purchasing *HMS Protector* and securing the UK's ice patrol capability through complex commercial negotiations



- **Ammunition Movement Visibility Cell:** for enhancing security measures to protect in transit DE&S munitions from criminals and terrorists



- **Defence Information Services, Battle Space Operations Team:** for achieving a vital upgrade to the Mission Secret Network on Operation Herrick
- **Strategic Transport Air-to-Air Refuelling KC30 Project Team:** for leading a step change in capability, reliability and comfort for a vital component of the RAF's strategic lift capability
- **Hercules Integrated Operational Support Team:** for recovering damaged Hercules aircraft to the UK following an exceptional hailstorm in Afghanistan and implementing a recovery programme
- **Queen Elizabeth Class and Maritime Composite Option Team:** for successfully restructuring the contract to build two *Queen Elizabeth* class aircraft carriers
- **Maritime Equipment Transformation Team:** for delivering the first phase of its improvement programme to increase equipment availability for the Royal Navy
- **Tortworth Team:** for delivering a decision on the way ahead for refuelling of *HMS Vanguard*
- **Compassionate Cell:** recognising provision of 24/7 compassionate travel solutions for personnel that underpins the moral component for defence
- **Windfarm Delivery Team:** for assessment of the maturity of six windfarm mitigation solutions for MOD air traffic control radars and securing £11 million from energy companies to upgrade radars in Scotland
- **Intelligence Systems Safeguarding Team:** for enabling continued access to critical Above Secret intelligence material with international partners
- **Surface Attack Project Team:** for delivering 'first use' of a world leading weapon system providing the UK with a unique defence capability
- **Defence Ordnance Safety Group Weapons System 3:** for an approach to air weapons range safety which has enabled danger areas for Paveway IV bombs to be reduced by up to 80 per cent
- **Tomahawk All Up Round Procurement Team:** for helping to resolve Tomahawk missile stockpiles issues
- **MK4A Team:** for overcoming technical challenges, including extensive trials with the US to ensure compatibility with the Trident II D5 strategic weapon system
- **Enclave Team:** for a series of capability enhancements in the Enclave programme, delivering at high tempo more than 20 equipments from eight suppliers
- **Warrior Output Cell:** for delivering the Warrior Crew Survivability urgent operational requirement, a trouble-free deployment with ease of fitting for the user
- **Materiel Strategy Team:** for helping to deliver the assessment phase of one of the most challenging change programmes in Government
- **Apache Pricing Period Two Team:** for bringing about the Apache Integrated Operational Support Contract Amendment, resulting in outstanding value for money
- **Cost Assurance and Analysis Service Trident Alternative Study Team:** for delivering a high quality and independent set of costs to support the Trident Alternative Study
- **Special Projects Communication, Information, Surveillance and Reconnaissance 1 Commercial Team:** for delivery of an accelerated programme of critical Intelligence, Surveillance, Target Acquisition and Reconnaissance capability in a short timescale
- **Commercial Capability Development Team:** for design, development and delivery of the inaugural MOD Commercial Apprenticeship Programme
- **PPM Skills Development Team:** recognising the reinvigoration of project and programme management numbers and skills, improving DE&S' capability
- **Spectrum Team:** for development and approval of the highly complex spectrum sale main gate business case
- **Defence Clothing Operation Vocate Team:** for providing clothing and personal equipment for visiting forces under Operation Vocate
- **HMS Ambush Air Turbine Pump Repair Tiger Team:** for repair of the submarine's air turbine pump in the face of technical and programme challenges





Main picture: an RAF Griffin helicopter, operating on firefighting duties in Cyprus.

Right: a Griffin fitted with wire cutters above and below the cockpit

Far right: team members at RAF Shawbury during aircraft modification and deep maintenance check. From left: Jim Winfield (SPMAP commercial officer), Rhys Green (Griffin ISS Mgr), and Thomas Pink (Safety Systems project manager)

At the cutting edge

A DE&S team is looking to the civilian world to help build more safety into a range of helicopters performing military tasks

A DE&S team has been working on helicopters which can cut through wire and can talk to each other to avoid mid-air collisions, in a bid to increase safety in the air.

Risks to life must be swiftly addressed – and the Special Projects Multi Air Platforms team in the Helicopters Operating Centre has been looking to bring proven civilian solutions to the military world, improving safety on a range of leased civilian aircraft working on military roles.

There is no better example of this than the programme of safety enhancements on the Griffin HAR Mk2 fleet, employed on search and rescue missions in Cyprus.

Work began two years ago to address two of the biggest risks to life – wire-strike and mid-air collision – across a number of the fleets the team manages.

“Rather than design a bespoke solution from scratch, we identified

off-the-shelf solutions already in use on the civilian versions of the aircraft we lease,” said Thomas Pink, the team’s Safety Systems project manager.

“For our search and rescue helicopters that operate in Cyprus – known by us as the Griffin HAR Mk2 but by the civil market as the Bell 412 – this meant two key upgrades. Firstly, ‘wire cutters’ had to be installed on the top and bottom of the cab to catch and cut wires should the aircraft strike, for example, power lines. This is a major structural change to the aircraft.

“Secondly, a Traffic Advisory System was chosen which automatically informs the pilot of other transponder-equipped aircraft potentially on a collision course with the host aircraft, which significantly mitigates the risk of mid-air collision.”

The first Griffin fitted with a wire strike protection system was flying within 17 months of the need being identified. The first fitted with the Traffic Advisory System is due to be flying this month.

“This is true delivery at pace,” said Mr Pink. “And it has required co-ordinated effort by the project team, the aircraft’s owner and maintainer Cobham Aviation Services, the Military Aviation Authority and the MOD Release to Service Authority.”

What is even more remarkable is that at the end of last year, the team was presented with an additional task to fit ‘Fast Fin’ onto the Griffin.

“The ‘Fast Fin’ is a structural change to the Griffin’s tail boom which improves aerodynamic performance, improving its stability in extreme weather and allowing it to carry bigger payloads,” said Rhys Green, Griffin’s ISS Manager.

“With support from Cobham, the team was able to identify quickly a civil certified solution and fitment completed last month. This is a great example of what is possible when you can exploit commercial off-the-shelf equipment.”

The team is now rolling out similar safety enhancements across a number of its other fleets, supporting all three services with the mitigation of their wire-strike and mid-air collision risks to life. Having already achieved an initial operating capability for wire-strike protection for Joint Helicopter Command’s Bell 212 and Dauphin N3 aircraft, the team is now working towards introduction of wire-strike protection on Squirrel at the Defence Helicopter Flying School, and Traffic Advisory System on the Flag Officer Sea Training Dauphin N2 and JHC Dauphin N3. The aim is to complete the whole programme of modifications next year – only three years from concept.

Team leader Col Martin Ringrose said: “I am delighted that service personnel flying in these aircraft will be safer as a result of this modification programme, and I’m very proud of my team for the way they have vigorously driven the programme through.”



Lightning strikes twice

Lightning II meets Typhoon for the first time as the UK and US take the initial steps towards fielding the future of combat air power for the two nations

Two countries have taken to the skies in the world's most modern aircraft as the UK has taken its first steps towards fielding the future of combat air power for the Royal Air Force and the Royal Navy.

An F-35 Lightning II from the 461st Flight Test Squadron based at Edwards Air Force Base joined two Typhoons from the RAF's Coningsby-based 41 Squadron in the skies over California to prove interoperability between the fourth Generation Typhoon and the F-35, the UK's first fifth generation stealth fighter aircraft.

Testing concentrated on the ability to pass real-time situational awareness and targeting messages over the Link 16 network. The test results proved significant capability between the two aircraft types and hinted at the potential for capability growth between the two complementary aircraft types.

On landing, Typhoon pilots Sqn Ldr Glyn Gogerty and Flt Lt Andy Mallery-Blythe said the interoperability of the two aircraft boded well for future operations and that the early opportunity to test the network protocols ensured that both aircraft would be able to hone

their system capabilities to maximise information sharing.

Lt Col Andrew Allen, Commanding Officer of the 461st FTS, reinforced the importance of interoperability. "Strong international partnerships are crucial to the future of our collective warfighting capability," he said. "Beyond the benefits of a joint and multi-national acquisition programme, our partnership with the UK on the F-35 is one of critical importance. It's good to see our two countries in the skies over Edwards making tangible advancements in the F-35 program together."



Gp Capt Willy Hackett, the UK National Deputy in the F-35 Joint Strike Fighter Programme Office, added: "The early investment in the Lightning II made by the UK is providing real benefits. We are shaping, testing and ensuring that our two combat air platforms of Future Force 2020 are truly interoperable.

"Having UK personnel embedded in the programme in the USA has allowed us to seize an opportunity and test Lightning II with Typhoon earlier than expected, which will enable the Lightning project team to deliver decisive air power capabilities to the front line."



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Soaraway C-130 departs Gibraltar

A C-130J roars away from Gibraltar, above, as a challenging programme to carry out a major visual upgrade to the aircraft simulators at RAF Brize Norton has been a success.

The two main Full Motion Simulators have been fitted with upgraded five-channel visual systems and the Flight Training Device has been fitted with a new flat panel visual system for the first time.

The three devices have been accepted as ready for training by the RAF in a programme led by DE&S' Flight Simulation and Synthetic Trainers team.

The upgrade also provided three high resolution terrain databases for simulated training sorties in the UK, Afghanistan and Europe. A further



Variety: C-130J in Scandinavia, far left, and at RAF Brize Norton

Team upgrades simulators at Brize

high resolution databases will be delivered by this September.

Wg Cdr Dorian James of 24 Squadron said: "The impressive extent of the new worldwide terrain and airfield databases combined with the latest generation visuals will provide the RAF with training at a level of fidelity unparalleled in military synthetic training equipment.

"Our C-130J Hercules aircrews are already talking of how the new visual systems make them feel far more immersed in the scenarios, which is allowing us to explore ways to expand the training we do with a view to increasing the use of

simulation throughout our training curriculum."

The original system dated from 1999 and was not capable of delivering operationally representative low level visuals.

The upgraded system will provide C-130J crews with the ability to train in one of the largest high-detail terrain databases in the world with new computer generated forces and the ability to undertake operationally representative low flying training for the first time in the C-130J simulator.

The new databases can also be used on the Royal Navy Lynx Mk8 simulator in Yeovilton and the upgrade will provide datasets for the new A400M simulators in RAF Brize Norton.

This will also be delivered along with the 3D moving models to Boscombe Down for re-use on all MOD synthetic programmes. This reuse of data will save both time and money.

"The MOD has adopted the CAE Medallion-6000 image generator and Common Database architecture on a range of flight simulators, and we are pleased the C-130J training devices at Brize Norton are now equipped with our state-of-the-art visual solution," said Ian Bell of contractors CAE "This will further advance the MOD's ability to leverage the commonality and interoperability delivered through our open, industry-standard solutions."

Reform will make MOD more efficient and effective

THE PASSAGE of the Defence Reform Bill into law has been welcomed by Philip Dunne, Minister for Defence Equipment, Support and Technology, who described the measure as vital to make MOD more efficient and effective.

The Act embodies the most significant change in a generation in the way MOD will conduct Single Source Procurement (SSP) and represents a fundamental shift in relations with defence industries.

It is expected to secure around £200 million a year in savings out of the £6 billion a year MOD spends on this type of procurement.

Mr Dunne said: "I am well aware of the significant amount of work across the department to deliver this legislation successfully and rapidly and I would like to thank all those involved for their hard work.

"This Act is a key component of the department's transformation efforts, facilitating the delivery of Future Force 2020, and creating a new framework for single source procurement contracts and the necessary provisions to deliver an effective government-owned, contractor-operated organisation, should the government of the day decide to

pursue this option."

The SSP reforms have been personally piloted through MOD and the legislation process by Director General Exports and Commercial Strategy Susanna Mason for the past five years.

She said: "This will allow



Susanna Mason

us to pay a fair profit on reasonable costs. It gives us real transparency throughout the contract and it provides us with a system that demands rigour in contract and supplier management.

"Commercial officers in DE&S will need to understand and work with new DEFCONs and commercial policy; Cost Assurance and Analysis Service staff will need to understand how to check and analyse increased data we will receive; and project managers will have to decide how to use the new analytics and information provided.

"Chiefs of Materiel will need to decide how to use the information at a consolidated level; Key Supplier Managers will be able to use the new data at supplier level; and CDM will be provided with much more detail at the portfolio level.

"This is not a big bang approach so there will be time for us all to find our way, and we will continue to refine the guidance, training, policy and reports."

She said industry had been consulted throughout and needed to teach their staff the new regulations, give MOD the level of detail it required and establish a relationship with the Single Source Regulation Office (SSRO).

The Chairman of the SSRO had been selected and the next step was appointment of non-executive directors and the chief executive.

A new approach

The Act creates a new statutory framework for MOD single source procurement contracts, which will secure better value for money for the taxpayer and guarantee fair and reasonable prices for defence suppliers.

The key elements of this new approach are that it:

- introduces a legally enforceable framework for MOD SSP;
- improves pricing principles for SSP, and places a duty on suppliers to use fit-for-purpose pricing assumptions;
- provides better oversight and monitoring of SSP, with civil penalties for non-compliance;
- creates a new independent body – the Single Source Regulations Office – to provide impartial oversight of SSP contracts;
- creates a new criminal offence for unauthorised disclosure of sensitive commercial data.



Typhoon shows agility on Baltic patrol

AN RAF Typhoon is pictured over Lithuania as part of the Nato Baltic air policing mission.

Four RAF Typhoons are based at Siauliai Air Base in Lithuania as part of measures taken by Nato to support and reassure its eastern member states.

The mission is a standing Nato defensive task undertaken by rotations of typically four air defence fighter aircraft from contributing nations. The RAF last participated in the mission in 2004/2005 with Tornado F3s.

Picture: Cpl Neil Bryden RAF

Satellite comms equipment has been procured for the African Union's mission in Somalia. The original request to DE&S will play a big part in ...



AN UNUSUAL procurement of satellite communications equipment has been completed by an Abbey Wood team helping to maintain peace in Somalia.

The Battlefield and Tactical Communication and Information Systems team was earmarked to provide the equipment when DE&S was approached last year to help the Foreign and Commonwealth Office and the Department for International Development.

The Ultra High Frequency equipment was for the government of Sierra Leone whose troops are deployed in Somalia as part of African Union peacekeeping operations.

"The UK agreed to help as part of an international agreement to provide aid to the region," said Paul Whitfield of commercial at BATCIS, now part of Joint Forces Command/Information Systems and Services.

"The Prime Minister subsequently announced how the UK would meet its obligations during a Somalia Conference in May 2013, to which our task was directly associated, so the stakes were high.

"This was a genuinely novel and contentious procurement, traditionally beyond the remit of DE&S, but owing to its high profile and endorsement from the Chief of Defence Materiel, BATCIS

endeavoured to meet the challenge."

BATCIS negotiated a contract with Castell Satcom Radios, who act as a UK agent for Barrett Communications, a supplier of radios based in Australia. Barrett equipment has previously been supplied to support African peacekeeping operations and is already used by the Sierra Leonean Army.

BATCIS helped the International Relations Group draft an MOU (Memorandum of Understanding) and associated Letter of Arrangement to formalise the transfer of ownership and responsibility for the equipment from the UK to the Sierra Leonean Government.

Delivery of the equipment took place from Australia, through France, to Somalia, where it was kept in store by the British Army's local advisory team until the memorandums and letters were signed.

"BATCIS was delighted to receive formal notification from the advisory team that equipment handover to the Sierra Leonean Army was underway within a matter of days of this announcement," said Mr Whitfield.

"This was a unique, memorable and rewarding task that was the result of a genuine team effort by BATCIS staff."

Top: nearly 1,000 Republic of Sierra Leone Armed Forces personnel completed training last year for the African Union Mission in Somalia (AMISOM) deployment. Some of their satellite communications equipment has been procured by DE&S Picture: US Army Africa

Below: a PRC-2081 25 WWHF Tactical Manpack, one of many items procured for the Somalia mission Picture: Barrett Communications

'A unique, memorable and rewarding task that was the result of a genuine team effort'



Next level of protection

A CENTRE for Defence Enterprise research contract has gone to Frazer-Nash Consultancy to explore more protection for military vehicles. Frazer-Nash's innovation is an armour-attachment system for rapid fixing and removal of armour modules onto any vehicle. It will apply different levels of protection to meet continually changing threats in theatre.

DE&S to design new appraisals

DE&S' NEW status will allow the organisation to design its own staff appraisal process.

In the meantime DE&S is introducing interim changes to the performance appraisal process for 2014/2015.

Based on business feedback on the 2013/2014 process the principal change is to merge the Performance Appraisal Report and DE&S Supplementary Evidence sheet. The result provides:

- The opportunity to make narrative comments;
- The inclusion of professional/functional competence objectives, as well as personal/leadership objectives;
- The flexibility to define the objectives so that they are specific to the individual and show what and how they are expected to contribute to the business;
- An assessment of potential.

In many areas the business will carry forward the Reporting Officer and Counter Signing Officer hierarchies and moderating panel structures. The work of local (Operating Centre) Performance Appraisal Administrators has been invaluable and will continue.

In parallel a new performance appraisal process will be designed for implementation next April. Business focus groups and trade unions will be engaged at an early stage to understand business and staff aspirations for performance appraisal.



All systems go: Terrier on its way to Canada

Terrier unleashed on Canada exercise

FIVE OF the Army's new Terrier engineering vehicles are operating in Canada supporting troops on exercise.

The vehicles left BAE Systems' factory in Newcastle earlier this year for the British Army Training Unit Suffield (BATUS) in Canada.

This signalled the start of the continuing fielding of the vehicles into their recipient units and consequent use by the Army.

While in BATUS, Terrier is fulfilling its role in providing armoured support to the battlegroup.

The vehicle's next milestone will be declaration of initial operating capability.

Completion of the 60 vehicles to the final build standard is continuing and will mean there will be only one build standard of the vehicle, which will avoid updating and configuration issues.

The final vehicle is expected to leave the factory by September and signals the end of armoured fighting vehicles manufacture at BAES Newcastle.

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Yeovilton takes on its Wildcat challenge

A SQUADRON to fly the new Wildcat helicopter, pictured right, will be commissioned in September as part of a major transition programme at the Fleet Air Arm.

The Lynx Wildcat Maritime Force (LWMF) at RNAS Yeovilton is already deep into the changes having successfully introduced the Wildcat Helicopter Maritime Attack Mk2 into service.

From March 2017 when the Lynx Mk8 goes out of service, the Force will become the Maritime Wildcat Force.

On 1st August this year LWMF will become two front line squadrons. 815 Naval Air Squadron will become the sole Lynx squadron, while 825 Naval Air Squadron will fly the Wildcat.

815 NAS will start its conversion from Lynx to Wildcat towards the end of next year. Commissioning of 825 NAS this September will see the squadron operate

the first four Wildcat Flights to convert a n d deploy to sea on either a Type 45 destroyer or Type 23 frigate.

It will deliver training to Lynx qualified and new aircrew on the Wildcat along with air engineers and will be responsible for continuing Wildcat tactical development, identifying and understanding the significant potential of this very capable new aircraft.

Captain Kevin Fleming, Commanding Officer of LWMF, said: "These are exciting times for the Lynx Wildcat Maritime Force, developing the brand new Wildcat

while delivering the Lynx to the front line. The Force has worked extremely hard to ensure that transition from Lynx to Wildcat is managed smoothly while maintaining support to operations as routine business.

"I am certain, with our continued positive engagement and professional focus, we will put the Maritime Wildcat Force firmly on track to delivering similar and even greater operational achievements for very many years."



Fleet Air Arm transition: a DE&S-procured Wildcat



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Bristol – so much better by design

THE BEST naval designers from the MOD and industry are now sharing a new office in Bristol, formally opened at the end of April.

DE&S' Director Ships, Tony Graham, opened the office – Babcock House in the Bristol Business Park – which now accommodates the Submarine and Surface Ship Naval Design Partnering (NDP) teams and Babcock's Energy and Marine Technology (E&MT) team.

The building brings together up to 64 NDP staff, as well as the Babcock E&MT team, combining Royal Navy operational expertise with industry skills.

The MOD-led multi-industry teams capitalise on the wealth of naval capabilities in the UK, drawing expertise from Babcock, BAE Systems, Rolls-Royce, BMT, Selex, MBDA, QinetiQ, Thales and Atlas.

Mr Graham said: "The new office is a significant step to protecting and growing the UK key naval design capability, providing a collaborative environment for multiple industrial partners to work together.

"For overseas customers interested in access to high-end ship design capability this joint government/industry office provides a very welcoming front door to some of the best of UK design skills."

Babcock's Energy and Marine Technology Naval Engineering Director, Simon Knight, added: "We are delighted to be able to contribute in this way to the country's future ship and submarine naval capability, by providing a dynamic workplace for MOD, wider industry and Babcock design experts to work together."



Shipshape in Bristol, from left, are: Henry Thomas (Ship NDP team leader, DE&S), Andrea Gilbert (NDP Office Manager, Babcock), Simon Knight (Naval Engineering Director, Babcock), Tony Graham (Director Ships, DE&S), Jon Hall (Managing Director - Technology, Babcock), Adam Rees-Leonard (Future Programmes Manager, Babcock), Jeff Owen (Capability and Future Business Director, Babcock), Jason Bryars (Submarine NDP team leader, DE&S)

Minister's pledge on redeployed vehicles

ALL armoured fighting vehicles deployed to Afghanistan are to be returned to the UK, Armed Forces Minister Mark Francois has pledged in Parliament. None has been destroyed and none currently due to be sold.

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50 not out for the expert advisers

A JOINT MOD and industry committee offering specialist technical advice on armament stores and equipment to front line aircrew has celebrated 50 successful years.

The Teacase Committee, formerly the Teacase Working Party, was formed in May 1964 to provide specialist technical safety advice on Thermal Effects on Airborne Conventional Armament Stores and Equipment – or Teacase for short.

The 50-year partnership was celebrated by the MOD and Lockheed Martin UK on 8th May.

The committee advises on the ability of armament stores to withstand the local environments to which they are subjected and then propose limitations on the flight profiles of the aircraft for safe operation.

It also determines means of minimising the undesirable thermal effects on armament stores and equipment, highlighting areas for research to improve critical components.

Modern high performance combat aircraft continue to set new challenges and the committee's work is as relevant today as it was in 1964.

Hunting Engineering (now LM UK at Amptill) became part of the committee in 1965, taking over secretarial responsibilities after the 50th committee meeting in 1977.

Committee chairman, Wg Cdr Jim Press from the Defence Ordnance Safety Group at Abbey Wood, said, "Whether, as in 1964, the committee was providing advice for aircrews operating the Gloster Javelin, Blackburn Buccaneer and TSR2, or today, in operating Tornado, Typhoon and F-35B Lightning II, the aim remains the same – providing relevant expert scientific and engineering safety advice to front line operators.

"A 50-year association with any industry partner demonstrates a relationship built on mutual support,



Expert advice through the ages on armament and equipment for the likes of the Gloster Javelin, above, the Blackburn Buccaneer, below and the BAC TSR2, left

Pictures: Kevin Slade



Alan Lines of Lockheed Martin, left, with Kim Jarvis of the Defence Ordnance Safety Group mark 50 years of MOD/industry partnership

intellectual respect, confidence and trust."

Alan Lines, Managing Director, LMUK Amptill, added: "I am delighted that we have been part of this successful working group which provides such valuable technical advice.

"Having built from a strong weapons legacy, retaining and refreshing subject matter expertise across the range of environments and products has been a key aspect of this capability, and we have been delighted to provide this important support to ensure the safety of the users."



Brigadier honours Estonians' Afghanistan service

DE&S' HEAD of Operational Support Programmes joined Prince Harry and the President of Estonia at the annual exercise to test the Baltic Republic's recruit training process.

Brigadier Peter Rafferty was at Exercise Kevadtorm which ran from 5th-23rd May involving UK troops alongside a number of other European nations' forces.

The British troops were from 1st Battalion, The Duke of Lancaster's Regiment – Brigadier Rafferty is their colonel.

At the event Prince Harry watched a Bond of Friendship Ceremony taking place between the Estonian and British Regiments.

Brigadier Rafferty said: "My Regiment has inherited a number of close affiliations from our antecedents but this is the first Bond of Friendship formed this century and marks the battlefield excellence of the Lions of Helmand that is my Lions of England and the Eesti Scouts Pataljon.

"It was a great honour to cement this friendship in the presence of Estonian President Toomas Hendrik Ilves and HRH Prince Harry."

Prince Harry and Brigadier Rafferty awarded commendations to four Estonian soldiers for their outstanding service in Afghanistan, pictured left.

Contracting takes on a long-range agenda

AIR MARSHAL Simon Bollom will lead a distinguished list of speakers next month exploring the challenges of contracting for support and availability over the next decade.

DE&S' Chief of Materiel (Air) will be joined by Roger West, Director of Inventory Management at DE&S, Paul Tasker of Cranfield University, and speakers from industry at a symposium at Cranfield on 1st and 2nd July.

The symposium will promote and develop collective understanding of how best to use contracting to deliver equipment capability and its subsequent in-service availability.

It will review current experiences of organisations involved in contracting for support and availability, lessons learned, best practice and what needs to be done to deliver over the next decade.

Industry speakers will include representatives from QinetiQ, Ernst and Young, BAE Systems and Hitachi Rail.

Further information or to register, visit www.symposiaatshrivenham.com.



Air Marshal Simon Bollom, centre, will lead speakers at Cranfield University next month. He is pictured, above, welcoming members of the Saudi Arabian air force to Abbey Wood last month

❑ A west country community band is on the lookout for musicians – of all instruments and abilities.

The Band of the Avon Fire and Rescue Service is an all-comers community wind band which performs in the name of the fire and rescue service but whose members are not firefighters.

The head of DE&S' German liaison team at Abbey Wood, Lt Col Herbert Gotte, plays saxophone with the band.

A new class for adult beginners starts in September, while intermediate musicians meet in Bath every Wednesday. The concert band meets on Mondays.

Further information from Lt Col Gotte on Abbey Wood ext 32620 or e-mail info@AvonFireAndRescueband.org

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DE&S staff are urged to get clued up on the cyber threat

JOINT FORCES Command has published a Cyber Primer designed to equip everyone in the MOD with the essential basic knowledge and guidance to deal effectively with the threats and opportunities posed by cyber.

Defence Secretary Philip Hammond has described cyber as the new frontier in defence.

He said: "For years, we have been building a defensive capability to protect ourselves against these cyber attacks. That is no longer enough.

"You deter people by having an offensive capability. We will build in Britain a cyber strike capability so we can strike back in cyberspace against enemies who attack us, putting cyber alongside land, sea, air and space as a mainstream military activity.

"Our commanders can

use cyber weapons alongside conventional weapons in future conflicts."

The 78-page document is already available on the Defence Intranet. It contains an explanatory foreword by General Sir Richard Barrons, Commander Joint Forces Command, and is designed to supplement existing information management and information assurance policy and procedures.

The document has two parts. The first examines what

cyber is and what it means for defence and the second gives examples of potential cyber attacks. The primer also gives ten top tips for staff to protect themselves and the MOD from attack.

The primer has been praised by DE&S Executive Team member, Chief of Materiel (Fleet) Vice Admiral Simon Lister, who said: "This is an extremely important, useful and well-written publication that should be required reading for staff at all

levels throughout DE&S. For those who remember them, it is the 'ladybird book of cyber'.

"It sets out clearly and simply what everybody working in defence needs to know, how cyber reaches across defence programmes and capabilities and the key precautions that everyone needs to take.

"I think the Joint Forces Command has done an excellent job in producing this primer – it is exactly what we needed."

□ DE&S Chief Information Officer Support Team has been tasked with embedding good cyber security practice in MOD's project teams and has been concentrating on providing content for the Acquisition Operating Framework for upload this summer.

The team is producing a DE&S Guide to Cyber security which takes a great deal of the content from the Cyber Primer (see above), adds some DE&S context, specific advice for projects, incident reporting guidance and training and further guidance links.

General Sir Richard Barrons said: "The character of conflict in our time has already been shaped by cyberspace. The purpose of this primer is to provide baseline awareness of cyber for the entire defence audience.

"We all need to know about the threat, the importance of adopting sound cyber security practices and how to think about exploiting the potential weaknesses of opponents.

"In short, whatever you do in defence, unless you know enough about cyber you will never be good enough at your job."

Latvia takes a look at UK capability

Baltic state aims to build up its vehicle fleet

BRITISH ARMoured vehicles have gone on parade in Latvia to celebrate the 24th anniversary of the restoration of the country's independence.

On 4th May, soldiers from 9th/12th Lancers paraded in Valmiera, giving the public the chance to see three British combat reconnaissance vehicles – Samson, Scimitar and Spartan – at first hand.

Latvia has identified these models, along with the Samaritan and Sultan, as a cost-effective platform to mechanise their infantry brigade and offer additional capability.

A letter of intent regarding purchase of British vehicles was signed in February at a meeting between the Latvian Minister of Defence, Raimonds Vejonis, and the UK Secretary of State for Defence, Philip Hammond.

Latvia plans to buy 123 vehicles in a contract worth many millions of Euros.

Accompanying the vehicles were troops from the 9th/12th Lancers, led by Captain Jason



Styles. The 9th/12th Lancers are a formation reconnaissance regiment attached to the 7th Armoured Brigade in Hohnhe, Germany.

From 2015, they will be amalgamated into the Royal

Lancers.

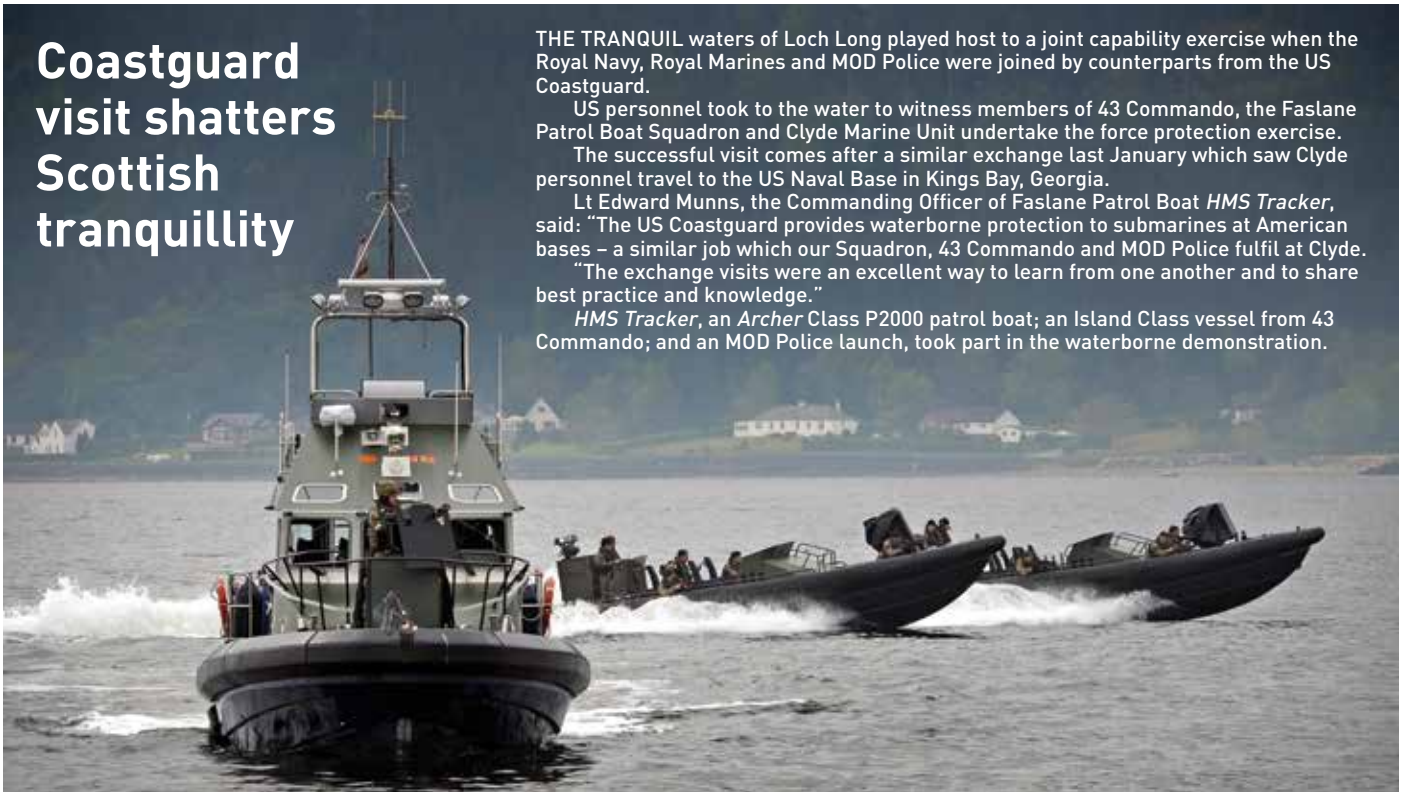
The troops' presence at Valmiera enabled them to further inform military and civilian attendees about the vehicles' capabilities. Also in attendance was the head of

Members of the 9th/12th Lancers are pictured in Valmiera where combat reconnaissance vehicles went on show to the public. The Baltic state has its eye on buying a number of vehicles from the UK

Logistic Services at DE&S, Brigadier Steve Watkin.

The event, only the third of its kind, follows a 2012 decision to organise a National Armed Forces Day to coincide with independence celebrations.

Coastguard visit shatters Scottish tranquillity



THE TRANQUIL waters of Loch Long played host to a joint capability exercise when the Royal Navy, Royal Marines and MOD Police were joined by counterparts from the US Coastguard.

US personnel took to the water to witness members of 43 Commando, the Faslane Patrol Boat Squadron and Clyde Marine Unit undertake the force protection exercise.

The successful visit comes after a similar exchange last January which saw Clyde personnel travel to the US Naval Base in Kings Bay, Georgia.

Lt Edward Munns, the Commanding Officer of Faslane Patrol Boat *HMS Tracker*, said: "The US Coastguard provides waterborne protection to submarines at American bases – a similar job which our Squadron, 43 Commando and MOD Police fulfil at Clyde.

"The exchange visits were an excellent way to learn from one another and to share best practice and knowledge."

HMS Tracker, an Archer Class P2000 patrol boat; an Island Class vessel from 43 Commando; and an MOD Police launch, took part in the waterborne demonstration.

Mighty donation from Quart Club

THE BRISTOL and Bath branches of the Royal Naval Engineers Quart Club, which have members who work at Abbey Wood, has donated £800 to the Chew Valley Lake Association for Disabled Sailors, near Bristol.

The money was raised by various club activities last year and reaffirms the strong links between the two organisations – one of the Chew Valley association boats is named *The Mighty Quart*.

The donation was made by the Bath RNEQC Secretary Lt Cdr Adrian Kerr, who is based at Abbey Wood, and also a member of Chew Valley Lake Sailing Club, to CLADS Chairman Steve Nash.

The engineers' club is a social and charitable organisation open to all Royal Navy engineer officers, serving and retired.

The club was started in the 1930s and has branches across the UK and overseas. The only stipulation is that members drink real ale out of a quart tankard at meetings.

CLADS has been in existence since 1991 and was started by two enthusiastic sailors from the Chew Valley Lake Sailing Club, Bristol.

More information on the Quart Club can be obtained from Adrian Kerr: AKerr@iee.org



Lt Cdr Adrian Kerr presents the Quart Club's cheque at Chew Valley Lake, near Bristol

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Staff put their shirts on Bobby Moore appeal

STAFF IN DE&S Secretariat, Communications and colleagues from other teams have put their shirts on cancer research by sporting their team's colours for a day.

Team members swapped their usual working clothes for shirts of their favourite teams, soccer in many cases, rugby in others on 25th April, bringing a burst of colour – garishly in some cases – to their offices.

The day supported Football Shirt Friday which raised money for the Bobby Moore Fund and Cancer Research UK.

The Fund, named after the England soccer captain and 1966 World Cup winner, raises awareness and money for research into bowel cancer which claimed the life of Moore in 1993 at the age of 51.

Staff in Secretariat and Communications,

supported by colleagues in the Materiel Strategy, Commercial Performance and Governance, and A400M teams, were rallied by Swansea City supporter Ellie Reece of Policy Secretariat, whose father survived bowel cancer a few years ago.

A collection in the office raised £141 for the two charities with further contributions of £47 from A400M and £32 from CPaG.

Duncan's rugby season ends on a big high

A SEA trainer and rugby referee from Faslane ended his sporting season in style at Twickenham.

Lt Cdr Duncan McClement, a nuclear propulsion and damage control expert, took charge of the Combined Services Under-23 v Oxbridge Under-23 fixture at Twickenham on 3rd May as a curtain raiser to the Army's victory of the Royal Navy.

Oxbridge edged a pulsating contest 33-31.

Duncan, 37, ends his season having achieved his Combined Services Colours, been selected for a number of Scottish RBS Premiership fixtures, refereed in an U18/19 competition in Portugal, an exchange fixture to Genoa and running the touchline

in his first full international – Spain v Russia in a World Cup qualifier – in Madrid.

Duncan, is the current holder of the Admiral Royds Trophy for Navy Rugby Referee of the Year.

He said: "What a fantastic way to finish what had already been a super season for me.

"It was a tremendous thrill to run out on to the pitch at Twickenham in front of a full house and I really enjoyed refereeing the match. I am already looking forward to whatever opportunities next season has on offer."

Above right: Lt Cdr Duncan McClement is presented with his refereeing Colours by Commodore Paddy McAlpine



■ This year's MOD/industry Spring Challenge took place at Thornbury Golf Centre on 15th May with more than 15 companies represented.

The morning's nine-hole was won by a mixed MOD and industry team.

The main event, eleven teams battling for the Spring Shield, saw AES Seals (Rotherham) take the title.

Prizes were presented by Mr Ralph Rizk, Head of Systems Support Marine and Technology, Babcock.

The next MOD/industry event will be on 17th September at the Players Club, near Chipping Sodbury.



Sea King shines on Ten Tors patrol

A SEA King Mk4 from 845 Naval Air Squadron at Yeovilton is pictured supporting this year's Ten Tors event on Dartmoor.

Around 2,400 entrants between 14 and 19 trekked up to 55 miles in windy conditions across the moors last month.

The event, in its 54th year, provides the Armed Forces with a perfect opportunity to practice life-saving civil contingency responsibilities to enable the military – assisted by the emergency services, as well as the Red Cross and the Dartmoor Search and Rescue Group – to be ready to help when they are called upon during a national emergency.

Mark hits a million!

Desk booking system passes a major milestone at Abbey Wood



A different way to start the day: Mark and his champagne

MARK FINNIS of DE&S Ships got a surprise when he booked a desk at Abbey Wood on 29th April – his booking request was the one millionth since the system was set up at DE&S headquarters.

The milestone was celebrated with a bottle of champagne, presented by Mark Rutterford, Deputy Head of DE&S Infrastructure at Abbey Wood.

Flexible working and desk sharing is now common in most Government departments. At Abbey Wood desks are shared

on the basis of eight desks for every ten people. Staff use the desk booking system hosted on the facilities management website Debut FM.

The system was first used in July 2010 by staff in Cedar in neighbourhood three and Oak at Abbey Wood North.

The roll-out continued until March 2012 as floorplates were converted to a standard design, DII workstations were installed on every desk and operating centres were co-located.

Booking is as simple as choosing a floorplate, seeing

what is available and choosing a date.

Users can book desks in their own operating centre up to eight weeks before they are needed.

There are now more than 10,000 bookings made each week across both sites. Abbey Wood South is the best used site across defence where 9,000 people share 7,200 desks – in most operating centres 95 per cent of desks are booked.

At current rates the next million should be in sight around Easter 2016.

Staff take on round Britain relay

HUNDREDS OF serving and ex-serving women of the RAF – including personnel from DE&S – will be touring the country in relays this year to raise money for charity.

WRAFS on tour will visit just about every part of Britain, including a host of RAF bases. Some will walk, some will cycle and the fittest will be running.

The relay kicks off in Stranraer on 28th June, with two days earmarked for the 53 miles to Prestwick.

Throughout July walkers will take in the sights of Glasgow, Stirling and Inverness, including RAF Leuchars and Lossiemouth, before crossing into England at the end of the month.

Then it's a slog round the RAF bases, with a visit to Main Building on 29th August.

The final and 97th leg of the marathon is due to take place on 24th October and will be the 20 miles from Stafford to the National Arboretum at Alrewas.

Money raised will go to the Royal Air Forces Association and Macmillan Cancer Support.

More information – <http://www.justgiving.com/teams/WRAFonTour>



Above: Gosport handiwork is heading for France

Yacht sails into twinning celebrations

THE HANDIWORK of four apprentices at Defence Munitions Gosport has been handed over to the town's mayor.

Last year the four second phase apprentices were asked by the Mayor of Gosport to design and build a J Class yacht model.

It will be presented as a gift to the

town of Royan in France to celebrate 55 years of twinning between the two towns.

Macauley Binner, Jack Bryant, Craig Kitcher and Andrew Willoughby duly got to work and handed over their superbly crafted yacht to Councillor John Beavis at a ceremony in the Mayor's Parlour last month.

Gun crew settles into new home



Martin Davidson, Managing Director of LMUK SS, and Captain Alistair Willis, Captain of *HMS Neptune*, open the new facility at Clyde

HMS NEPTUNE'S Field Gun team have a new training facility at Clyde naval base thanks to sponsorship from Lockheed Martin UK Strategic Systems.

A new crew room was officially opened by Captain Alistair Willis, Captain of *HMS Neptune*, and Martin Davidson, Managing Director of LMUK SS at the end of April.

Captain Willis said: "It is now a brilliant and impressive facility which sends a really powerful message about how we value the support of *HMS Neptune* Field Gun crew."

Last January the team was presented with £12,500 by LMUK which, with additional funding from Babcock, was used to refurbish the crew room.

Overseen by Estates Directorate Clyde and project managed by Babcock, the work took three weeks to complete. Contractor Richard Henderson renewed all guttering and undertook repairs to the roof of an existing facility at the north end of the naval base.

Other work included new light fittings, repairs to the floor and a refresh of internal and external paintwork. New furniture was also provided for the facility.

Mr Davidson said: "We are delighted to see that through our continued sponsorship the team can now enjoy the benefits of these facilities."

Sponsored by the Royal Navy and Royal Marines Charity, the modern-day competition sees a number of teams from military and DE&S sites compete.

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Police earn awards after cliff rescue



Award winners, from left: Mark Bowden, Bob Richards, Gary Fleming, Steve Farnes, Chris Gibbs and Darren Lawton

MOTTO – the MOD Lottery – March winners

£10,000: Neil Pirie (Abbey Wood). **£5,000:** Christopher Stephens (RAF Lossiemouth). **£2,000:** Allan Maskell (Leconfield). **£500:** Mary Tumelty (Ballykinler), Kathy Barr (DSG). **£100:** Kelly Harvey (Dstl), Joanne Hudson (Warminster), Linda Allen (RAF Cranwell), David Hingston (Bicester), Glen Stewart (Beith), Susan Ray (RAF Wyton), Jamie Marley (Camberley), Raymond Brooks (Abbey Wood), Dennis Smith (Aldergrove), Rosemary Mercantas (RAF Cosford), Janet Casey (RAF Lakenheath), Ellen Gaskell (RAF Mildenhall), Paul Short (Abbey Wood), Gordon Davidson (Belfast), Pamela Lodge (Bicester), Janice Davidson (Devonport), Noel English (RAF Aldergrove), Howard Miller, (Liverpool), Mark Dixon (Sutton Coldfield), Steven Field (London).

MOD MARINE Police officers have been rewarded for rescuing an 80-year-old man who fell down a steep cliff.

The victim was prevented from landing further onto rocks below thanks to boat crews which went to the rescue from Devonport.

Police officers sailed in shallow water close to rocks and the distressed and badly cut casualty was lowered 80 feet or more down a steep cliff by rope.

He was then carried over treacherous ground on a stretcher to the waiting boats and onto land for urgent paramedic treatment.

The officers were presented with MOD Police Chief Constable Awards at a ceremony in Devonport on 1st May.

Chief Superintendent Michael O’Byrne, MOD Police Divisional Commander, said: “I am very proud of my officers. They showed the versatility and flexibility of the way they operate. They went above and beyond the call of duty in this case and saved this elderly man from serious injury or possibly worse.”

The Australian holidaymaker Michael Westlake was visiting his brother in Cawsands, Cornwall, when he slipped off the cliff path in Mount Edgcumbe Country Park in Cornwall and fell about 100ft down a steeply sloping cliff near Fort Picklecombe last September.

He narrowly avoided plummeting down the last vertical drop onto rocks when his clothing caught on thick brambles.

Passing yachtsmen heard his cries for help and raised the alarm. Brixham Coastguard requested the assistance of the MOD Police Marine Unit and two rigid inflatable boats and a larger launch attended.

DINs - released this month

Defence Instructions and Notices (DINs) are defence-wide instructions, guidance and notices for military and civilian staff, containing up-to-the-minute information to help people carry out their duties. Some of the latest issued on Defence Equipment and Support are:

2014DIN04-060: Some variants of the Rocket Hand Fired Series have been reclassified following data from tests carried out by the German authorities. They were presented to the Explosive Storage and Transport Committee who have decided to change classification of some of the suite of Rocket Hand Fired munitions with immediate effect.

2014DIN04-068: A Supply Chain Management review has led to a change of policy when demanding Aircrew Temperate Boots managed by the Aircrew and Survival Branch.

2014DIN04-079: The K130A4 and K130A5 guided missiles, part of the surface to air High Velocity Missile system, based on the Thales Starstreak, will now see their service lives extended by 13 and 11 years respectively.

2014DIN04-082: A number of 20ft ISO containers were made in the late 90s as bespoke communications cabins to support Balkans operations. Eight are stored at Ashchurch and will be disposed of if there is no interest declared from the wider defence community for their re-use in other areas.

Further information and more details on the latest DINs see:

<http://defenceintranet.diif.r.mil.uk/Reference/DINsJSPs/Pages/DINsindex2014.aspx>



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